

# THE LARGEST KNOWN PRIMES

(Primes with 500,000 or more digits)

(selected smaller primes which have comments are included)

Originally Compiled by Samuel Yates – Continued by Chris Caldwell

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So that I can maintain this database of the 5,000 largest known primes (plus selected smaller primes with 1,000 or more digits), please send any new primes (that are large enough) to:

<http://primes.utm.edu/bios/submission.php>

This list in a searchable form (plus information such as how to find large primes and how to prove primality) is available at the interactive web site:

<http://primes.utm.edu/primes/>

See the last pages for information about the provers.

Professor Chris K. Caldwell  
Mathematics and Statistics  
University of Tennessee at Martin  
Martin, TN 38238, USA

caldwell@utm.edu  
<http://www.utm.edu/~caldwell/>

## 1 The List of Primes

The letters after the rank refer to when the prime was submitted. ‘a’ is this month, ‘b’ last month...

rank	description	digits	who	year	comment
1	$2^{43112609} - 1$	12978189	G10	08	Mersenne 47??
2	$2^{42643801} - 1$	12837064	G12	09	Mersenne 46??
3	$2^{37156667} - 1$	11185272	G11	08	Mersenne 45??
4	$2^{32582657} - 1$	9808358	G9	06	Mersenne 44??
5	$2^{30402457} - 1$	9152052	G9	05	Mersenne 43??
6	$2^{25964951} - 1$	7816230	G8	05	Mersenne 42?
7	$2^{24036583} - 1$	7235733	G7	04	Mersenne 41?
8	$2^{20996011} - 1$	6320430	G6	03	Mersenne 40
9	$2^{13466917} - 1$	4053946	G5	01	Mersenne 39
10	$19249 \cdot 2^{13018586} + 1$	3918990	SB10	07	
11	$27653 \cdot 2^{9167433} + 1$	2759677	SB8	05	
12	$90527 \cdot 2^{9162167} + 1$	2758093	L1460	10	
13	$75898^{524288} + 1$	2558647	p334	11	Generalized Fermat
14	$28433 \cdot 2^{7830457} + 1$	2357207	SB7	04	
15	$3 \cdot 2^{7033641} + 1$	2117338	L2233	11	Divides $GF(7033639, 3)$
16	$33661 \cdot 2^{7031232} + 1$	2116617	SB11	07	
17	$2^{6972593} - 1$	2098960	G4	99	Mersenne 38
18	$6679881 \cdot 2^{6679881} + 1$	2010852	L917	09	Cullen
19	$1582137 \cdot 2^{6328550} + 1$	1905090	L801	09	Cullen
20	$3 \cdot 2^{6090515} - 1$	1833429	L1353	10	
21	$258317 \cdot 2^{5450519} + 1$	1640776	g414	08	
22	$3 \cdot 2^{5082306} + 1$	1529928	L780	09	Divides $GF(5082303, 3)$ , $GF(5082305, 5)$
23	$5359 \cdot 2^{5054502} + 1$	1521561	SB6	03	

rank	description	digits	who	year	comment
24	$525094^{262144} + 1$	1499526	p338	12	Generalized Fermat
25	$265711 \cdot 2^{4858008} + 1$	1462412	g414	08	
26	$361658^{262144} + 1$	1457075	p332	11	Generalized Fermat
27	$145310^{262144} + 1$	1353265	p314	11	Generalized Fermat
28	$353159 \cdot 2^{4331116} - 1$	1303802	L2408	11	
29	$141941 \cdot 2^{4299438} - 1$	1294265	L689	11	
30	$3 \cdot 2^{4235414} - 1$	1274988	L606	08	
31	$40734^{262144} + 1$	1208473	p309	11	Generalized Fermat
32	$24518^{262144} + 1$	1150678	g413	08	Generalized Fermat
33	$123547 \cdot 2^{3804809} - 1$	1145367	L2371	11	
34	$415267 \cdot 2^{3771929} - 1$	1135470	L2373	11	
35	$938237 \cdot 2^{3752950} - 1$	1129757	L521	07	Woodall
36	$65531 \cdot 2^{3629342} - 1$	1092546	L2269	11	
37	$485767 \cdot 2^{3609357} - 1$	1086531	L622	08	
38	$5 \cdot 2^{3569154} - 1$	1074424	L503	09	
39	$7 \cdot 2^{3511774} + 1$	1057151	p236	08	Divides $GF(3511773, 6)$
40	$428639 \cdot 2^{3506452} - 1$	1055553	L2046	11	
41	$191249 \cdot 2^{3417696} - 1$	1028835	L1949	10	
42	$59 \cdot 2^{3408416} - 1$	1026038	L426	10	
43	$81 \cdot 2^{3352924} + 1$	1009333	L1728	12	Generalized Fermat
44	$3139 \cdot 2^{3321905} - 1$	999997	L185	08	
45	$4847 \cdot 2^{3321063} + 1$	999744	SB9	05	
46	$9 \cdot 2^{3259381} - 1$	981173	L1828	11	
47	$113983 \cdot 2^{3201175} - 1$	963655	L613	08	
48	$3 \cdot 2^{3136255} - 1$	944108	L256	07	
49	$5 \cdot 2^{3059698} - 1$	921062	L503	08	
50	$383731 \cdot 2^{3021377} - 1$	909531	L466	11	
51	$2^{3021377} - 1$	909526	G3	98	Mersenne 37
52	$7 \cdot 2^{3015762} + 1$	907836	g279	08	
53	$1095 \cdot 2^{2992587} - 1$	900862	L1828	11	
54	$4348099 \cdot 2^{2976221} - 1$	895939	L466	08	
55	$2^{2976221} - 1$	895932	G2	97	Mersenne 36
56	$7 \cdot 2^{2915954} + 1$	877791	g279	08	Divides $GF(2915953, 12)$ [g322]
57	$427194 \cdot 113^{427194} + 1$	877069	p310	12	Generalized Cullen
58	$1207 \cdot 2^{2861901} - 1$	861522	L1828	11	
59	$222361 \cdot 2^{2854840} + 1$	859398	g403	06	
60	$96 \cdot 10^{846519} - 1$	846521	L2425	11	Near-repdigit
61	$17 \cdot 2^{2721830} - 1$	819354	p294	10	
62	$1372930^{131072} + 1$	804474	g236	03	Generalized Fermat
63	$1361244^{131072} + 1$	803988	g236	04	Generalized Fermat
64	$1176694^{131072} + 1$	795695	g236	03	Generalized Fermat
65	$13 \cdot 2^{2642943} - 1$	795607	L1862	12	
66	$342673 \cdot 2^{2639439} - 1$	794556	L53	07	
67	$1243 \cdot 2^{2623707} - 1$	789818	L1828	11	
68	$13 \cdot 2^{2606075} - 1$	784508	L1862	11	
69	$75 \cdot 2^{2562382} - 1$	771356	L2055	11	
70	$404 \cdot 12^{714558} + 1$	771141	L1471	11	
71	$9 \cdot 2^{543551} + 1$	765687	L1204	11	Divides Fermat $F(2543548)$ , $GF(2543549, 3)$ , $GF(2543549, 6)$
72	$572186^{131072} + 1$	754652	g0	04	Generalized Fermat

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73	$165 \cdot 2^{2500130} - 1$	752617	L2055	11	
74	$3 \cdot 2^{2478785} + 1$	746190	g245	03	Divides Fermat $F(2478782)$ , $GF(2478782, 3)$ , $GF(2478776, 6)$ , $GF(2478782, 12)$
75	$11 \cdot 2^{2476839} + 1$	745604	L2691	11	
76	$81 \cdot 2^{2468789} + 1$	743182	g418	09	
77	$26773 \cdot 2^{2465343} - 1$	742147	L197	06	
78	$5 \cdot 2^{2460482} - 1$	740680	L503	08	
79	$386892^{131072} + 1$	732377	p259	09	Generalized Fermat
80	$23 \cdot 2^{2425641} + 1$	730193	L2675	11	
81	$15 \cdot 2^{2393365} + 1$	720476	L1349	10	
82	$737 \cdot 2^{2382804} - 1$	717299	L191	07	
83	$1117 \cdot 2^{2373977} - 1$	714642	L1828	12	
84	$1183953 \cdot 2^{2367907} - 1$	712818	L447	07	Woodall
85	$150209! + 1$	712355	p3	11	Factorial
86	$127 \cdot 2^{2346377} - 1$	706332	L282	09	
87	$275293 \cdot 2^{2335007} - 1$	702913	L193	06	
88	$228188^{131072} + 1$	702323	g124	10	Generalized Fermat
89	$15 \cdot 2^{2323205} - 1$	699356	L2484	11	
90	$3 \cdot 2^{2312734} - 1$	696203	L158	05	
91	$450457 \cdot 2^{2307905} - 1$	694755	L172	06	
92	$1087 \cdot 2^{2293345} - 1$	690369	L1828	11	
93	$3 \cdot 2^{2291610} + 1$	689844	L753	08	Divides $GF(2291607, 3)$ , $GF(2291609, 5)$
94	$11 \cdot 2^{2230369} + 1$	671410	L2561	11	Divides $GF(2230368, 3)$
95	$130816^{131072} + 1$	670651	g308	03	Generalized Fermat
96	$27 \cdot 2^{2218064} + 1$	667706	L690	09	
97	$67 \cdot 2^{2215581} - 1$	666959	L268	10	
98	$165 \cdot 2^{2207550} - 1$	664541	L2055	11	
99	$19 \cdot 2^{2206266} + 1$	664154	p189	06	
100	$2 \cdot 179^{294739} + 1$	664004	g424	11	Divides $Phi(179^{294739}, 2)$
101	$5077 \cdot 2^{2198565} - 1$	661838	L251	08	
102	$114487 \cdot 2^{2198389} - 1$	661787	L179	06	
103	$404882 \cdot 43^{404882} - 1$	661368	p310	11	Generalized Woodall
104	$196597 \cdot 2^{2178109} - 1$	655682	L175	06	
105	$69 \cdot 2^{2174213} - 1$	654506	L2055	12	
106	$7 \cdot 2^{2167800} + 1$	652574	g279	07	Divides Fermat $F(2167797)$ , $GF(2167799, 5)$ , $GF(2167799, 10)$
107	$3 \cdot 2^{2145353} + 1$	645817	g245	03	Divides Fermat $F(2145351)$ , $GF(2145351, 3)$ , $GF(2145352, 5)$ , $GF(2145348, 6)$ , $GF(2145352, 10)$ , $GF(2145351, 12)$
108	$25 \cdot 2^{2141884} + 1$	644773	L1741	11	Divides Fermat $F(2141872)$ , $GF(2141871, 5)$ , $GF(2141872, 10)$ ; generalized Fermat

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109	$23 \cdot 2^{2141626} - 1$	644696	L545	08	
110	$7 \cdot 2^{2139912} + 1$	644179	g279	07	Divides $GF(2139911, 12)$
111	$61 \cdot 2^{2134577} - 1$	642574	L2055	11	
112	$75 \cdot 2^{2130432} - 1$	641326	L2055	11	
113	$254 \cdot 5^{911506} - 1$	637118	p292	10	
114	$57 \cdot 2^{2103370} - 1$	633180	L2055	11	
115	$62722^{131072} + 1$	628808	g308	03	Generalized Fermat
116	$563528 \cdot 13^{563528} - 1$	627745	p262	09	Generalized Woodall
117	$1003 \cdot 2^{2076535} - 1$	625103	L51	08	
118	$2186 \cdot 7^{739474} - 1$	624932	p258	11	
119	$9 \cdot 2^{2060941} - 1$	620407	L503	08	
120	$75 \cdot 2^{2050637} - 1$	617306	L2055	11	
121	$121 \cdot 2^{2033941} - 1$	612280	L162	06	
122	$8 \cdot 10^{608989} - 1$	608990	p297	11	Near-repdigit
123	$45 \cdot 2^{2014557} + 1$	606444	L1349	12	Divides $GF(2014552, 10)$
124	$251749 \cdot 2^{2013995} - 1$	606279	L436	07	Woodall
125	$428551 \cdot 2^{2006520} + 1$	604029	g411	11	
126	$8331405 \cdot 2^{1993674} - 1$	600163	L260	11	
127	$467917 \cdot 2^{1993429} - 1$	600088	L160	05	
128	$137137 \cdot 2^{1993201} - 1$	600019	L321	07	
129	$17 \cdot 2^{1990299} + 1$	599141	g267	06	Divides $GF(1990298, 3)$
130	$8331405 \cdot 2^{1984565} - 1$	597421	L260	11	
131	$25 \cdot 2^{1977369} - 1$	595249	L426	08	
132	$148323 \cdot 2^{1973319} - 1$	594034	L587	11	
133	$93 \cdot 2^{1965880} + 1$	591791	L1210	11	
134	$121 \cdot 2^{1954243} - 1$	588288	L162	06	
135	$89 \cdot 2^{1943337} + 1$	585005	L2413	11	
136	$214519 \cdot 2^{1929114} + 1$	580727	g346	06	
137	$2 \cdot 47^{346759} + 1$	579816	g424	11	Divides $Phi(47^{346759}, 2)$
138	$243 \cdot 2^{1923567} - 1$	579054	L2055	11	
139	$85 \cdot 2^{1910520} + 1$	575126	L2703	11	
140	$27 \cdot 2^{1902689} - 1$	572768	L1153	09	
141	$87 \cdot 2^{1891391} + 1$	569368	L2673	11	
142	$85287 \cdot 2^{1890011} + 1$	568955	p254	11	
143	$345067 \cdot 2^{1876573} - 1$	564911	g59	05	
144	$71 \cdot 2^{1873569} + 1$	564003	L1223	11	
145	$21 \cdot 2^{1872923} - 1$	563808	L2074	12	
146	$2 \cdot 3^{1175232} + 1$	560729	p199	10	
147	$13 \cdot 2^{1861732} + 1$	560439	g267	05	Divides $GF(1861731, 6)$
148	$51 \cdot 2^{1859193} + 1$	559675	L1204	11	
149	$8331405 \cdot 2^{1858587} - 1$	559498	L260	11	
150	$87 \cdot 2^{1852590} - 1$	557688	L2055	11	
151	$137 \cdot 2^{1849238} - 1$	556679	L321	07	
152	$15 \cdot 2^{1837873} - 1$	553257	L632	08	
153	$73 \cdot 2^{1834526} + 1$	552250	L1513	11	
154	$87 \cdot 2^{1834098} + 1$	552121	L1513	11	
155	$3 \cdot 2^{1832496} + 1$	551637	p189	07	Divides $GF(1832490, 3)$ , $GF(1832494, 5)$
156	$21 \cdot 2^{1830919} + 1$	551163	g279	04	
157	$39 \cdot 2^{1824871} + 1$	549343	L2664	11	Divides $GF(1824867, 6)$

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158	$35 \cdot 2^{1817486} - 1$	547120	L2074	11	
159	$69 \cdot 2^{1816739} + 1$	546895	L1204	11	
160	$33 \cdot 2^{1813526} - 1$	545928	L621	08	
161	$1305 \cdot 2^{1809766} - 1$	544797	L1828	11	
162	$1185 \cdot 2^{1809466} - 1$	544707	L1828	11	
163	$9 \cdot 2^{1807574} + 1$	544135	L2419	11	Generalized Fermat
164	$301 \cdot 2^{1801207} - 1$	542220	p281	10	
165	$1193 \cdot 2^{1801112} - 1$	542192	L1828	11	
166	$417643 \cdot 2^{1800787} - 1$	542097	L134	05	
167	$1045 \cdot 2^{1800025} - 1$	541865	L1828	11	
168	$43 \cdot 2^{1799016} + 1$	541560	L2562	11	
169	$43 \cdot 2^{1795628} + 1$	540540	L1129	11	
170	$63 \cdot 2^{1784498} + 1$	537190	L1415	11	
171	$45 \cdot 2^{1779971} + 1$	535827	L1223	11	
172	$357659 \cdot 2^{1779748} - 1$	535764	L47	05	
173	$99 \cdot 2^{1777688} - 1$	535140	L1862	11	
174	$5 \cdot 2^{1777515} + 1$	535087	p148	05	Divides $GF(1777511, 5)$ , $GF(1777514, 6)$
175	$243 \cdot 2^{1777467} - 1$	535074	L2055	11	
176	$99 \cdot 2^{1768187} + 1$	532280	L2517	11	
177	$35 \cdot 2^{1765449} + 1$	531455	L1204	11	
178	$65 \cdot 2^{1764687} + 1$	531226	L1125	11	
179	$2 \cdot 191^{232149} + 1$	529540	g424	11	Divides $Phi(191^{232149}, 2)$
180	$57 \cdot 2^{1756702} + 1$	528822	L1741	11	
181	$71 \cdot 2^{1755965} + 1$	528600	L1741	11	
182	$31 \cdot 2^{1755317} - 1$	528405	L330	11	
183	$5077 \cdot 2^{1753317} - 1$	527805	L251	08	
184	$65 \cdot 2^{1752885} + 1$	527673	L1204	11	
185	$1179 \cdot 2^{1750847} + 1$	527061	g387	09	
186	$345 \cdot 2^{1742652} - 1$	524594	L1830	12	
187	$315 \cdot 2^{1741334} - 1$	524197	L1830	12	
188	$95 \cdot 2^{1738427} + 1$	523321	L2085	11	
189	$61 \cdot 2^{1734983} - 1$	522284	L2055	11	
190	$253 \cdot 2^{1722623} - 1$	518564	L145	07	
191	$2 \cdot 3^{1086112} + 1$	518208	p199	10	
192	$113 \cdot 2^{1721438} - 1$	518207	L2484	11	
193	$2 \cdot 3^{1074726} + 1$	512775	p199	10	
194	$283 \cdot 2^{1702599} - 1$	512536	L426	10	
195	$233 \cdot 2^{1700734} - 1$	511975	L426	10	
196	$5 \cdot 10^{511056} - 1$	511057	p297	11	Near-repdigit
197	$121 \cdot 2^{1695499} - 1$	510399	L62	05	
198	$20049 \cdot 2^{1687252} - 1$	507918	L1471	11	
199	$63 \cdot 2^{1686050} + 1$	507554	L2085	11	Divides $GF(1686047, 12)$
200	$19 \cdot 2^{1684813} - 1$	507181	L503	08	
201	$110059! + 1$	507082	p312	11	Factorial
202	$139 \cdot 666^{178851} - 1$	504984	L2054	11	
203	$60357 \cdot 2^{1676907} + 1$	504805	L587	11	
204	$95 \cdot 2^{1674777} + 1$	504161	L1224	11	
205	$93 \cdot 2^{1673893} + 1$	503894	L2085	11	
206	$55 \cdot 2^{1669798} + 1$	502662	L2518	11	Divides $GF(1669797, 12)$

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207	$15 \cdot 2^{1667744} + 1$	502043	g279	07	
208	$2^{1667321} - 2^{833661} + 1$	501914	L137	11	Gaussian Mersenne norm 38?
209	$149183 \cdot 2^{1666957} + 1$	501810	g346	05	
210	$99 \cdot 2^{1665995} + 1$	501517	L2121	11	
217	$49 \cdot 2^{1646042} + 1$	495510	L2516	11	Generalized Fermat
219	$81 \cdot 2^{1643428} + 1$	494724	g418	09	Generalized Fermat
234	$81 \cdot 2^{1606848} + 1$	483712	gt	07	Generalized Fermat
248	$87 \cdot 2^{1580858} + 1$	475888	L2487	11	Divides $GF(1580856, 6)$
261	$103040! - 1$	471794	p301	10	Factorial
268	$5 \cdot 10^{464843} - 1$	464844	p297	11	Near-repdigit
290	$13 \cdot 2^{1499876} + 1$	451509	g267	04	Divides $GF(1499875, 3)$
298	$131 \cdot 2^{1494099} + 1$	449771	L2959	12	Divides Fermat $F(1494096)$
305	$7 \cdot 2^{1491852} + 1$	449094	p166	05	Divides $GF(1491851, 6)$
315	$1286 \cdot 3^{937499} + 1$	447304	L2777	12	Generalized Cullen
321	$5 \cdot 10^{445773} - 1$	445774	p297	11	Near-repdigit
333	$176660 \cdot 18^{353320} - 1$	443519	p325	11	Generalized Woodall
344	$1467763 \cdot 2^{1467763} - 1$	441847	L381	07	Woodall
398	$95 \cdot 2^{1433853} + 1$	431635	L2503	11	Divides $GF(1433852, 3)$
414	$94550! - 1$	429390	p290	10	Factorial
427	$15 \cdot 2^{1418605} + 1$	427044	g279	06	Divides $GF(1418600, 5)$ , $GF(1418601, 6)$
458	$2^{1398269} - 1$	420921	G1	96	Mersenne 35
470	$182402 \cdot 14^{364804} - 1$	418118	p325	11	Generalized Woodall
471	$17 \cdot 2^{1388355} + 1$	417938	g267	05	Divides $GF(1388354, 10)$
492	$6 \cdot 10^{414508} - 1$	414509	p297	11	Near-repdigit
542	$338707 \cdot 2^{1354830} + 1$	407850	L124	05	Cullen
567	$11 \cdot 2^{1343347} + 1$	404389	p169	05	Divides $GF(1343346, 6)$
581	$107 \cdot 2^{1337019} + 1$	402485	L2659	12	Divides $GF(1337018, 10)$
605	$5 \cdot 2^{1320487} + 1$	397507	g55	02	Divides $GF(1320486, 12)$
617	$15266 \cdot 12^{366385} - 1$	395401	p325	11	Generalized Woodall
658	$125132 \cdot 6^{500528} - 1$	389492	L2777	12	Generalized Woodall
679	$5 \cdot 2^{1282755} + 1$	386149	g55	02	Divides $GF(1282754, 3)$ , $GF(1282748, 5)$
694	$15 \cdot 2^{1276177} + 1$	384169	g279	06	Divides $GF(1276174, 3)$ , $GF(1276174, 10)$
700	$9 \cdot 10^{383643} - 1$	383644	p297	11	Near-repdigit
714	$1268979 \cdot 2^{1268979} - 1$	382007	L201	07	Woodall
745	$2^{1257787} - 1$	378632	SG	96	Mersenne 34
771	$329 \cdot 2^{1246017} + 1$	375092	L2085	12	Divides Fermat $F(1246013)$
801	$259738 \cdot 3^{779214} + 1$	371785	L2777	11	Generalized Cullen
804	$531 \cdot 2^{1233440} + 1$	371306	L2803	11	Divides $GF(1233439, 5)$
837	$177482 \cdot 117^{177482} + 1$	367072	g407	08	Generalized Cullen
847	$843301\# - 1$	365851	p302	10	Primorial
854	$99 \cdot 2^{1211757} + 1$	364778	L1446	11	Divides $GF(1211755, 5)$
855	$25 \cdot 2^{1211488} + 1$	364696	g279	05	Generalized Fermat, divides $GF(1211487, 12)$
857	$9 \cdot 10^{364521} - 1$	364522	p297	10	Near-repdigit
878	$2^{1203793} - 2^{601897} + 1$	362378	L192	06	Gaussian Mersenne norm 37
890	$9999992 \cdot 10^{360403} - 1$	360410	L1958	11	Near-repdigit
897	$1195203 \cdot 2^{1195203} - 1$	359799	L124	05	Woodall

rank	description	digits	who	year	comment
997	$83 \cdot 2^{1154617} + 1$	347577	L446	10	Divides $GF(1154616, 3)$
1004	$29 \cdot 2^{1152765} + 1$	347019	g300	05	Divides $GF(1152760, 10)$
1030	$101 \cdot 2^{1142981} + 1$	344074	L1446	11	Divides $GF(1142980, 3)$
1056	$2 \cdot 263^{140989} + 1$	341188	g424	11	Divides $Phi(263^{140989}, 2)$
1061	$33 \cdot 2^{1130884} + 1$	340432	L165	06	Divides $GF(1130881, 12)$
1066	$163 \cdot 2^{1129934} + 1$	340147	L1751	10	Divides $GF(1129933, 10)$
1068	$178192 \cdot 3^{712768} + 1$	340083	L2777	11	Generalized Cullen
1082	$14521 \cdot 6^{435631} + 1$	338991	L2777	12	Generalized Cullen
1086	$2 \cdot 467^{126775} + 1$	338403	g425	11	Divides $Phi(467^{126775}, 2)$
1196	$93 \cdot 2^{1087202} + 1$	327283	L669	10	Divides $GF(1087199, 12)$
1287	$6 \cdot 10^{319889} - 1$	319890	p297	10	Near-repdigit
1393	$549 \cdot 2^{1033187} + 1$	311024	L1224	11	Divides $GF(1033186, 5)$
1451	$151 \cdot 2^{1016600} + 1$	306030	L669	10	Divides $GF(1016599, 5)$
1464	$139948 \cdot 151^{139948} + 1$	304949	g407	10	Generalized Cullen
1582	$2^{991961} - 2^{495981} + 1$	298611	x28	05	Gaussian Mersenne norm 36
1598	$225 \cdot 2^{988695} + 1$	297630	L1446	10	Divides $GF(988693, 6)$
1708	$6 \cdot 10^{293134} - 1$	293135	p297	10	Near-repdigit
1779	$11 \cdot 2^{960901} + 1$	289262	g277	05	Divides Fermat $F(960897)$
1811	$148306 \cdot 87^{148306} - 1$	287648	L2911	12	Generalized Woodall
1816	$2 \cdot 827^{98511} + 1$	287407	g404	09	Divides $Phi(827^{98511}, 2)$
1828	$102498 \cdot 5^{409992} - 1$	286578	L2841	11	Generalized Woodall
1858	$143717 \cdot 96^{143717} + 1$	284892	g157	09	Generalized Cullen
1963	$2 \cdot 131^{131925} + 1$	279322	g424	10	Divides $Phi(131^{131925}, 2)$
1991	$873 \cdot 2^{922545} + 1$	277717	L153	10	Divides $GF(922543, 3)$
2003	$138846 \cdot 99^{138846} + 1$	277092	g157	10	Generalized Cullen
2027	$113 \cdot 2^{916801} + 1$	275987	L153	09	Divides $GF(916800, 5)$ , $GF(916800, 12)$
2028	$3 \cdot 2^{916773} + 1$	275977	g245	01	Divides $GF(916771, 3)$ , $GF(916772, 10)$
2043	[ Long prime 2043 ]	275495	p44	12	Palindrome
2147	$6 \cdot 10^{270658} - 1$	270659	p297	10	Near-repdigit
2166	$182461 \cdot 30^{182461} - 1$	269523	p327	11	Generalized Woodall
2169	$43 \cdot 2^{894766} + 1$	269354	g279	06	Divides $GF(894765, 5)$
2219	$6 \cdot 10^{267598} - 1$	267599	p297	10	Near-repdigit
2222	$560750 \cdot 3^{560750} - 1$	267552	p327	11	Generalized Woodall
2231	$11 \cdot 2^{886071} + 1$	266735	g277	05	Divides $GF(886070, 12)$
2335	$129840 \cdot 104^{129840} - 1$	261897	p278	10	Generalized Woodall
2377	$9 \cdot 10^{260253} - 1$	260254	p297	10	Near-repdigit
2418	$2^{859433} - 1$	258716	SG	94	Mersenne 33
2481	$217606 \cdot 15^{217606} - 1$	255930	p260	11	Generalized Woodall
2498	$Phi(3, -3^{267414} + 1)/3$	255178	x28	05	Generalized unique
2502	$9999999 \cdot 10^{255038} - 1$	255045	L1958	11	Near-repdigit
2602	$249 \cdot 2^{832207} + 1$	250522	L669	10	Divides $GF(832206, 5)$
2613	$35 \cdot 2^{831411} + 1$	250282	g279	06	Divides $GF(831410, 3)$
2621	$9999998 \cdot 10^{249869} - 1$	249876	L1958	11	Near-repdigit
2635	$2 \cdot 239^{104781} + 1$	249212	g424	11	Divides $Phi(239^{104781}, 2)$
2657	$52592 \cdot 52514^{52592} - 1$	248254	g77	09	Generalized Woodall
2664	$229918 \cdot 12^{229918} - 1$	248129	x37	08	Generalized Woodall
2689	$5 \cdot 2^{819739} + 1$	246767	g55	01	Divides $GF(819738, 3)$
2725	$459 \cdot 2^{816031} + 1$	245653	L1498	11	Divides $GF(816030, 5)$

rank	description	digits	who	year	comment
2765	$7 \cdot 2^{811230} + 1$	244206	g148	02	Divides $GF(811228, 5)$
2814	$112894 \cdot 141^{112894} - 1$	242639	p325	11	Generalized Woodall
2820	$9980 \cdot 19^{189621} - 1$	242483	p237	08	Generalized Woodall
2828	$7 \cdot 2^{804534} + 1$	242190	g196	03	Divides $GF(804533, 12)$
2853	$3 \cdot 2^{801978} + 1$	241420	g372	05	Divides $GF(801973, 3)$ , $GF(801977, 5)$
2893	$42014 \cdot 3^{504169} + 1$	240555	L2777	11	Generalized Cullen
2971	$129897 \cdot 68^{129897} + 1$	238043	p277	10	Generalized Cullen
3014	$8 \cdot 10^{236891} - 1$	236892	p297	10	Near-repdigit
3053	$60205 \cdot 2^{782665} - 1$	235611	p243	09	Generalized Woodall
3132	$9999993 \cdot 10^{234006} - 1$	234013	L1958	11	Near-repdigit
3169	$67 \cdot 2^{773566} + 1$	232869	p227	08	Divides $GF(773564, 5)$
3211	$51359 \cdot 2^{770385} + 1$	231914	L2777	11	Generalized Cullen
3431	$2^{756839} - 1$	227832	SG	92	Mersenne 32
3495	$117172 \cdot 86^{117172} + 1$	226675	g157	11	Generalized Cullen
3546	$96 \cdot 10^{225618} - 1$	225620	L1958	10	Near-repdigit
3592	$999999 \cdot 10^{224997} - 1$	225003	L554	11	Near-repdigit
3650	$89211 \cdot 18^{178422} - 1$	223974	p325	11	Generalized Woodall
3824	[ Long prime 3824 ]	221071	x34	08	Generalized unique
3950	$59 \cdot 2^{727815} + 1$	219096	p227	08	Divides $GF(727814, 12)$
4015	$2 \cdot 83^{113849} + 1$	218486	g424	10	Divides $Phi(83^{113849}, 2)$
4018	$92866 \cdot 15^{185732} - 1$	218443	p325	11	Generalized Woodall
4666	$75 \cdot 2^{705688} + 1$	212436	p227	08	Divides $GF(705684, 12)$
5134	$Phi(3, -2322573^{16384})$	208601	p72	08	Generalized unique
5139	$Phi(3, -2313516^{16384})$	208545	p72	08	Generalized unique
5234	$207777 \cdot 10^{207777} + 1$	207783	g157	10	Generalized Cullen
5247	$Phi(3, -2182528^{16384})$	207716	f7	07	Generalized unique
5250	$Phi(3, -2178996^{16384})$	207692	f7	07	Generalized unique
5263	$2 \cdot 683^{73237} + 1$	207585	g404	08	Divides $Phi(683^{73237}, 2)$
5306	$Phi(3, -2115084^{16384})$	207269	f7	07	Generalized unique
5314	$Phi(3, -2110199^{16384})$	207236	f7	07	Generalized unique
5338	$Phi(3, -2074507^{16384})$	206993	f7	07	Generalized unique
5376	$Phi(3, -2029827^{16384})$	206683	f7	06	Generalized unique
5414	$Phi(3, -1989801^{16384})$	206400	f7	06	Generalized unique
5419	$Phi(3, -3898771219232^{8192})$	206290	f14	07	Generalized unique
5434	$Phi(3, -3824990769800^{8192})$	206154	f14	07	Generalized unique
5440	$Phi(3, -3804263911368^{8192})$	206116	f14	07	Generalized unique
5442	$Phi(3, -1949616^{16384})$	206110	f7	06	Generalized unique
5446	$13 \cdot 2^{684560} + 1$	206075	g267	03	Divides $GF(684557, 10)$ , $GF(684559, 6)$
5448	$Phi(3, -3775889401250^{8192})$	206062	f14	07	Generalized unique
5451	$Phi(3, -3757143544200^{8192})$	206027	f14	07	Generalized unique
5457	$Phi(3, -1932045^{16384})$	205981	f7	06	Generalized unique
5466	$Phi(3, -1925507^{16384})$	205932	f7	06	Generalized unique
5479	$Phi(3, -1910944^{16384})$	205824	f7	06	Generalized unique
5575	$10^{205030} + 7047407 \cdot 10^{102512} + 1$	205031	D	11	Palindrome
5844	$187895 \cdot 12^{187895} + 1$	202779	g157	10	Generalized Cullen
5901	$27 \cdot 2^{672007} + 1$	202296	g279	05	Divides Fermat $F(672005)$
5910	$96436 \cdot 5^{289308} + 1$	202223	L2777	11	Generalized Cullen
5990	$93906 \cdot 140^{93906} - 1$	201540	p325	11	Generalized Woodall

rank	description	digits	who	year	comment
6100	$667071 \cdot 2^{667071} - 1$	200815	g55	00	Woodall
6123	$9094283341425 \cdot 2^{666669} - 1$	200701	p199	11	Arithmetic progression ( $3, d = 32289415560495 \cdot 2^{666666}$ )
6169	$40464851170905 \cdot 2^{666666} - 1$	200701	L1008	11	Arithmetic progression ( $2, d = 32289415560495 \cdot 2^{666666}$ ) [p199]
6222	$3756801695685 \cdot 2^{666669} + 1$	200700	L1921	11	Twin ( $p + 2$ )
6223	$3756801695685 \cdot 2^{666669} - 1$	200700	L1921	11	Twin ( $p$ )
6344	$26767338410445 \cdot 2^{666666} - 1$	200700	p199	11	Arithmetic progression ( $3, d = 12521740750545 \cdot 2^{666666}$ )
6645	$23716957113345 \cdot 2^{666666} - 1$	200700	p199	11	Arithmetic progression ( $3, d = 2697434638065 \cdot 2^{666668}$ )
6695	$11638738675125 \cdot 2^{666667} - 1$	200700	p199	11	Arithmetic progression ( $3, d = 9571322415225 \cdot 2^{666666}$ )
7496	$14646182194005 \cdot 2^{666666} - 1$	200700	p199	11	Arithmetic progression ( $3, d = 3388839720735 \cdot 2^{666666}$ )
7538	$3561399414975 \cdot 2^{666668} - 1$	200700	L1661	11	Arithmetic progression ( $2, d = 12521740750545 \cdot 2^{666666}$ ) [p199]
7598	$13706154935025 \cdot 2^{666666} - 1$	200700	L967	11	Arithmetic progression ( $2, d = 9571322415225 \cdot 2^{666666}$ ) [p199]
7698	$12927218561085 \cdot 2^{666666} - 1$	200700	L2078	11	Arithmetic progression ( $2, d = 2697434638065 \cdot 2^{666668}$ ) [p199]
7865	$5628671236635 \cdot 2^{666667} - 1$	200700	L1945	11	Arithmetic progression ( $2, d = 3388839720735 \cdot 2^{666666}$ ) [p199]
8173	$4087717805205 \cdot 2^{666667} - 1$	200700	L1633	10	Arithmetic progression ( $1, d = 32289415560495 \cdot 2^{666666}$ ) [p199]
8220	$7868502752535 \cdot 2^{666666} - 1$	200700	L1183	10	Arithmetic progression ( $1, d = 3388839720735 \cdot 2^{666666}$ ) [p199]
8590	$516854064975 \cdot 2^{666669} - 1$	200700	L1286	10	Arithmetic progression ( $1, d = 9571322415225 \cdot 2^{666666}$ ) [p199]
8780	$2137480008825 \cdot 2^{666666} - 1$	200699	L1706	10	Arithmetic progression ( $1, d = 2697434638065 \cdot 2^{666668}$ ) [p199]
8825	$1723856909355 \cdot 2^{666666} - 1$	200699	L934	10	Arithmetic progression ( $1, d = 12521740750545 \cdot 2^{666666}$ ) [p199]
9071	$2 \cdot 419^{76419} + 1$	200388	g404	07	Divides $\Phi(419^{76419}, 2)$
9141	$10^{200000} + 47960506974 \cdot 10^{99995} + 1$	200001	p288	10	Palindrome
9237	$101670 \cdot 91^{101670} + 1$	199181	g157	05	Generalized Cullen
9465	$87258 \cdot 182^{87258} + 1$	197215	g392	06	Generalized Cullen
9484	$151456 \cdot 20^{151456} + 1$	197054	g157	11	Generalized Cullen
9600	$98035 \cdot 10^{196070} + 1$	196075	g157	07	Generalized Cullen
10094	$2 \cdot 11987^{47063} + 1$	191957	g426	11	Divides $\Phi(11987^{47063}, 2)$
10303	$10^{190004} + 214757412 \cdot 10^{94998} + 1$	190005	D	10	Palindrome
10383	$2 \cdot 191^{83009} + 1$	189347	g404	06	Divides $\Phi(191^{83009}, 2)$
10771	$659 \cdot 2^{617815} + 1$	185984	L732	09	Divides Fermat $F(617813)$
10881	$10^{185008} + 130525031 \cdot 10^{92500} + 1$	185009	D	10	Palindrome
11125	$2 \cdot 131^{86365} + 1$	182859	g404	07	Divides $\Phi(131^{86365}, 2)$
11509	$10^{180054} + 8 \cdot R(58567) \cdot 10^{60744} + 1$	180055	p235	09	Tetradic palindrome
11517	$10^{180004} + 248797842 \cdot 10^{89998} + 1$	180005	D	07	Palindrome
11899	$351 \cdot 2^{588325} + 1$	177107	L651	09	Divides $GF(588323, 6)$
12006	$195 \cdot 2^{585988} + 1$	176403	p189	07	Divides $GF(585985, 12)$ [K]
12047	$151 \cdot 2^{585044} + 1$	176118	L446	07	Divides Fermat $F(585042)$

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12170	$10^{175108} + 230767032 \cdot 10^{87550} + 1$	175109	D	07	Palindrome
12791	$519 \cdot 2^{567235} + 1$	170758	L656	09	Divides Fermat $F(567233)$
12899	$10^{170006} + 3880883 \cdot 10^{85000} + 1$	170007	D	06	Palindrome
12903	$392113\# + 1$	169966	p16	01	Primorial
13009	$7 \cdot 2^{561816} + 1$	169125	g148	03	Divides $GF(561815, 5)$ ; $GF(561815, 6)$ [p149]
14363	$2 \cdot 1031^{53111} + 1$	160038	g404	09	Divides $Phi(1031^{53111}, 2)$
14368	$10^{160016} + 8231328 \cdot 10^{80005} + 1$	160017	D	06	Palindrome
14542	$366439\# + 1$	158936	p16	01	Primorial
14635	$345 \cdot 2^{525977} + 1$	158338	g258	07	Divides $GF(525974, 6)$
14660	$11 \cdot 2^{525589} + 1$	158220	p116	03	Divides $GF(525588, 6)$
15286	$39 \cdot 2^{512997} + 1$	154430	g267	05	Divides $GF(512994, 5)$ ; $GF(512995, 6)$
15566	$2 \cdot 191^{66971} + 1$	152764	g404	06	Divides $Phi(191^{66971}, 2)$
16006	$2 \cdot 431^{56947} + 1$	150026	g404	07	Divides $Phi(431^{56947}, 2)$
16009	$10^{150008} + 4798974 \cdot 10^{75001} + 1$	150009	D	06	Palindrome
16011	$10^{150006} + 7426247 \cdot 10^{75000} + 1$	150007	p5	05	Palindrome
16042	$2 \cdot 1931^{45605} + 1$	149849	g404	07	Divides $Phi(1931^{45605}, 2)$
16141	$243 \cdot 2^{495732} + 1$	149233	L165	07	Divides Fermat $F(495728)$ ; $GF(495726, 3)$ , $GF(495728, 6)$ ; $GF(495727, 12)$
16818	$9265 \cdot 2^{482072} + 1$	145123	L635	09	Divides $GF(482070, 10)$
16823	$481899 \cdot 2^{481899} + 1$	145072	gm	98	Cullen
16933	$2 \cdot 599^{51983} + 1$	144380	g404	08	Divides $Phi(599^{51983}, 2)$
17086	$651 \cdot 2^{476632} + 1$	143484	L668	08	Divides Fermat $F(476624)$
17171	$34790! - 1$	142891	p85	02	Factorial
17179	$6841 \cdot 2^{474348} + 1$	142797	L1065	09	Divides $GF(474347, 10)$
17306	$89 \cdot 2^{472099} + 1$	142118	p114	04	Divides Fermat $F(472097)$
17677	$10^{140008} + 4546454 \cdot 10^{70001} + 1$	140009	D	05	Palindrome
17704	$2 \cdot 191^{61303} + 1$	139835	g404	06	Divides $Phi(191^{61303}, 2)$ [g187]
17821	$3911 \cdot 2^{462579} + 1$	139254	L679	09	Divides $GF(462577, 10)$
17892	$9 \cdot 2^{461081} + 1$	138801	g122	03	Divides Fermat $F(461076)$ ; $GF(461077, 3)$ , $GF(461077, 6)$ ; $GF(461077, 12)$
17916	$1791 \cdot 2^{460696} + 1$	138687	p240	09	Divides $GF(460693, 12)$
18159	$4377 \cdot 2^{456708} + 1$	137487	L872	09	Divides $GF(456707, 10)$
18594	$10^{134809} - 10^{67404} - 1$	134809	p235	10	Near-repdigit, palindrome
18944	$9 \cdot 2^{435743} + 1$	131173	g122	03	Divides $GF(435742, 10)$
19093	$10^{130048} + (9 \cdot 10^{37077} - 2)/11 \cdot 10^{46486} + 1$	130049	p235	08	Tetradic palindrome
19098	$10^{130036} + 116010611 \cdot 10^{65014} + 1$	130037	D	04	Palindrome
19100	$10^{130022} + 3761673 \cdot 10^{65008} + 1$	130023	D	04	Palindrome
19317	$10^{127590} + 10^{42297} \cdot (9 \cdot 10^{42997} - 2)/11 + 1$	127591	x40	09	Tetradic palindrome
19321	[ Long prime 19321 ]	127577	p185	06	Tetradic, palindrome
19505	$10^{125877} - 7 \cdot 10^{62938} - 1$	125877	p235	10	Near-repdigit palindrome
19745	$1207 \cdot 2^{410108} + 1$	123458	g380	05	Divides Fermat $F(410105)$
19944	$15 \cdot 2^{403929} + 1$	121596	p114	02	Divides $GF(403927, 10)$
20257	$69 \cdot 2^{394574} + 1$	118781	p219	08	Divides $GF(394572, 12)$

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20636	$3 \cdot 2^{382449} + 1$	115130	g132	99	Divides Fermat $F(382447)$ , $GF(382447, 3)$ , $GF(382447, 12)$ , $GF(382443, 6)$
21348	$2^{364289} - 2^{182145} + 1$	109662	p58	01	Gaussian Mersenne norm 35
21402	$3 \cdot 2^{362765} + 1$	109204	g245	02	Divides $GF(362763, 12)$ , $GF(362764, 10)$
21466	$75 \cdot 2^{361614} + 1$	108859	p114	04	Divides $GF(361612, 10)$
21482	$361275 \cdot 2^{361275} + 1$	108761	DS	98	Cullen
21649	$26951! + 1$	107707	p65	02	Factorial
22393	$163 \cdot 2^{343190} + 1$	103313	g258	05	Divides $GF(343189, 10)$
22763	$485 \cdot 2^{338297} + 1$	101841	L203	07	Divides Fermat $F(338295)$ [K]
23149	$65516468355 \cdot 2^{333333} + 1$	100355	L923	09	Twin ( $p + 2$ )
23150	$65516468355 \cdot 2^{333333} - 1$	100355	L923	09	Twin ( $p$ )
27249	$3 \cdot 2^{303093} + 1$	91241	Y	98	Divides Fermat $F(303088)$ ; $GF(303088, 3)$ , $GF(303086, 6)$ , $GF(303092, 10)$ , $GF(303088, 12)$ , $GF(303092, 5)$ [g0]
28019	$21480! - 1$	83727	p65	01	Factorial
28428	$183027 \cdot 2^{265441} - 1$	79911	L983	10	Sophie Germain ( $2p + 1$ )
28429	$183027 \cdot 2^{265440} - 1$	79911	L983	10	Sophie Germain ( $p$ )
28504	$262419 \cdot 2^{262419} + 1$	79002	DS	98	Cullen
28839	$648621027630345 \cdot 2^{253825} - 1$	76424	x24	09	Sophie Germain ( $2p + 1$ )
28840	$620366307356565 \cdot 2^{253825} - 1$	76424	x24	09	Sophie Germain ( $2p + 1$ )
28841	$648621027630345 \cdot 2^{253824} - 1$	76424	x24	09	Sophie Germain ( $p$ )
28842	$620366307356565 \cdot 2^{253824} - 1$	76424	x24	09	Sophie Germain ( $p$ )
30699	$2^{216091} - 1$	65050	S	85	Mersenne 31
31079	$145823\# + 1$	63142	p21	00	Primorial
31354	$2^{203789} + 2^{101895} + 1$	61347	O	00	Gaussian Mersenne norm 34
32642	$2003663613 \cdot 2^{195000} + 1$	58711	L202	07	Twin ( $p + 2$ )
32643	$2003663613 \cdot 2^{195000} - 1$	58711	L202	07	Twin ( $p$ )
34558	$607095 \cdot 2^{176312} - 1$	53081	L983	09	Sophie Germain ( $2p + 1$ )
34559	$607095 \cdot 2^{176311} - 1$	53081	L983	09	Sophie Germain ( $p$ )
35054	$48047305725 \cdot 2^{172404} - 1$	51910	L99	07	Sophie Germain ( $2p + 1$ )
35055	$48047305725 \cdot 2^{172403} - 1$	51910	L99	07	Sophie Germain ( $p$ )
35153	$137211941292195 \cdot 2^{171961} - 1$	51780	x24	06	Sophie Germain ( $2p + 1$ )
35154	$194772106074315 \cdot 2^{171960} + 1$	51780	x24	07	Twin ( $p + 2$ )
35155	$194772106074315 \cdot 2^{171960} - 1$	51780	x24	07	Twin ( $p$ )
35156	$137211941292195 \cdot 2^{171960} - 1$	51780	x24	06	Sophie Germain ( $p$ )
35157	$100314512544015 \cdot 2^{171960} + 1$	51780	x24	06	Twin ( $p + 2$ )
35158	$100314512544015 \cdot 2^{171960} - 1$	51780	x24	06	Twin ( $p$ )
35159	$16869987339975 \cdot 2^{171960} + 1$	51779	x24	05	Twin ( $p + 2$ )
35160	$16869987339975 \cdot 2^{171960} - 1$	51779	x24	05	Twin ( $p$ )
35374	$(34120^{11311} - 1)/34119$	51269	CH2	11	Generalized repunit
35972	$33218925 \cdot 2^{169690} + 1$	51090	g259	02	Twin ( $p + 2$ )
35973	$33218925 \cdot 2^{169690} - 1$	51090	g259	02	Twin ( $p$ )
36704	$2^{160423} - 2^{80212} + 1$	48293	O	00	Gaussian Mersenne norm 33
36828	$primV(40395, -1, 15588)$	47759	x23	07	Generalized Lucas primitive part
36897	$primV(53394, -1, 15264)$	47200	CH4	07	Generalized Lucas primitive part
37105	$22835841624 \cdot 7^{54321} + 1$	45917	p296	10	Twin ( $p + 2$ )

rank	description	digits	who	year	comment
37106	$22835841624 \cdot 7^{54321} - 1$	45917	p296	10	Twin (p)
37168	$151023 \cdot 2^{151023} - 1$	45468	g25	98	Woodall
37741	$648309 \cdot 2^{148311} + 1$	44652	L983	10	Cunningham chain 2nd kind ( $2p - 1$ )
37742	$648309 \cdot 2^{148310} + 1$	44652	L983	10	Cunningham chain 2nd kind (p)
37940	$71509 \cdot 2^{143019} - 1$	43058	g23	98	Woodall, arithmetic progression ( $2, d = (143018 \cdot 2^{83969} - 80047) \cdot 2^{59049}$ ) [x12]
38050	$31737014565 \cdot 2^{140004} - 1$	42156	L95	10	Sophie Germain ( $2p + 1$ )
38051	$31737014565 \cdot 2^{140003} - 1$	42156	L95	10	Sophie Germain (p)
38052	$14962863771 \cdot 2^{140002} - 1$	42155	L95	10	Sophie Germain ( $2p + 1$ )
38053	$12378188145 \cdot 2^{140002} + 1$	42155	L95	10	Twin ( $p + 2$ )
38054	$12378188145 \cdot 2^{140002} - 1$	42155	L95	10	Twin (p)
38055	$23272426305 \cdot 2^{140001} + 1$	42155	L95	10	Twin ( $p + 2$ )
38056	$23272426305 \cdot 2^{140001} - 1$	42155	L95	10	Twin (p)
38057	$14962863771 \cdot 2^{140001} - 1$	42155	L95	10	Sophie Germain (p)
38098	$(32556^{9283} - 1)/32555$	41887	CH2	11	Generalized repunit
38367	$(1549^{12973} - 1)/1548$	41382	p170	10	Generalized repunit
38416	$552903 \cdot 2^{136157} + 1$	40994	L983	10	Cunningham chain 2nd kind ( $2p - 1$ )
38417	$552903 \cdot 2^{136156} + 1$	40993	L983	10	Cunningham chain 2nd kind (p)
39257	$2^{132049} - 1$	39751	S	83	Mersenne 30
39760	$8151728061 \cdot 2^{125987} + 1$	37936	p35	10	Twin ( $p + 2$ )
39761	$8151728061 \cdot 2^{125987} - 1$	37936	p35	10	Twin (p)
39858	$163221 \cdot 2^{124601} + 1$	37514	L983	09	Cunningham chain 2nd kind ( $2p - 1$ )
39859	$163221 \cdot 2^{124600} + 1$	37514	L983	09	Cunningham chain 2nd kind (p)
39910	$33759183 \cdot 2^{123459} - 1$	37173	L527	09	Sophie Germain ( $2p + 1$ )
39911	$33759183 \cdot 2^{123458} - 1$	37173	L527	09	Sophie Germain (p)
39934	$(28839^{8317} - 1)/28838$	37090	CH6	06	Generalized repunit
40090	$(4366^{10099} - 1)/4365$	36758	x14	11	Generalized repunit
40129	$7068555 \cdot 2^{121302} - 1$	36523	L100	05	Sophie Germain ( $2p + 1$ )
40130	$7068555 \cdot 2^{121301} - 1$	36523	L100	05	Sophie Germain (p)
40287	$598899 \cdot 2^{118987} + 1$	35825	L983	10	Twin ( $p + 2$ )
40288	$598899 \cdot 2^{118987} - 1$	35825	L983	10	Twin (p)
40442	$307259241 \cdot 2^{115599} + 1$	34808	g336	09	Twin ( $p + 2$ )
40443	$307259241 \cdot 2^{115599} - 1$	34808	g336	09	Twin (p)
40476	<i>primV</i> (38513, -1, 11502)	34668	x23	06	Generalized Lucas primitive part
40521	$2540041185 \cdot 2^{114730} - 1$	34547	g294	03	Sophie Germain ( $2p + 1$ )
40529	$2540041185 \cdot 2^{114729} - 1$	34547	g294	03	Sophie Germain (p)
40635	$60194061 \cdot 2^{114689} + 1$	34533	g294	02	Twin ( $p + 2$ )
40636	$60194061 \cdot 2^{114689} - 1$	34533	g294	02	Twin (p)
40689	<i>primV</i> (9008, 1, 16200)	34168	x23	05	Generalized Lucas primitive part
40820	$5558745 \cdot 10^{33334} + 1$	33341	p311	11	Twin ( $p + 2$ )
40821	$5558745 \cdot 10^{33334} - 1$	33341	p311	11	Twin (p)
40917	$2^{110503} - 1$	33265	WC	88	Mersenne 29
40923	$108615 \cdot 2^{110342} + 1$	33222	L113	08	Twin ( $p + 2$ )
40924	$108615 \cdot 2^{110342} - 1$	33222	L113	08	Twin (p)
41318	$1124044292325 \cdot 2^{108000} - 1$	32524	L99	06	Sophie Germain ( $2p + 1$ )
41319	$1124044292325 \cdot 2^{107999} - 1$	32523	L99	06	Sophie Germain (p)

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41320	$112886032245 \cdot 2^{108001} - 1$	32523	L99	06	Sophie Germain ( $2p + 1$ )
41321	$112886032245 \cdot 2^{108000} - 1$	32523	L99	06	Sophie Germain (p)
41403	$1765199373 \cdot 2^{107520} + 1$	32376	g182	02	Twin ( $p + 2$ )
41404	$1765199373 \cdot 2^{107520} - 1$	32376	g182	02	Twin (p)
42255	$318032361 \cdot 2^{107001} + 1$	32220	p100	01	Twin ( $p + 2$ )
42256	$318032361 \cdot 2^{107001} - 1$	32220	p100	01	Twin (p)
42293	$2^{106693} + 2^{53347} + 1$	32118	O	00	Gaussian Mersenne norm 32
42449	$532323 \cdot 2^{104390} + 1$	31431	L983	09	Cunningham chain 2nd kind ( $2p - 1$ )
42450	$532323 \cdot 2^{104389} + 1$	31430	L983	09	Cunningham chain 2nd kind (p)
42532	$\text{prim}V(10987, 1, 14400)$	31034	x25	05	Generalized Lucas primitive part
42765	$38588805195 \cdot 2^{100003} - 1$	30115	L95	09	Sophie Germain ( $2p + 1$ )
42766	$4501763715 \cdot 2^{100006} + 1$	30115	L95	09	Twin ( $p + 2$ )
42767	$4501763715 \cdot 2^{100006} - 1$	30115	L95	09	Twin (p)
42768	$38588805195 \cdot 2^{100002} - 1$	30115	L95	09	Sophie Germain (p)
42769	$15744710163 \cdot 2^{100003} - 1$	30115	L95	09	Sophie Germain ( $2p + 1$ )
42770	$35909079387 \cdot 2^{100001} - 1$	30114	L95	09	Sophie Germain ( $2p + 1$ )
42771	$34776437961 \cdot 2^{100001} + 1$	30114	L95	09	Twin ( $p + 2$ )
42772	$34776437961 \cdot 2^{100001} - 1$	30114	L95	09	Twin (p)
42773	$15744710163 \cdot 2^{100002} - 1$	30114	L95	09	Sophie Germain (p)
42774	$35909079387 \cdot 2^{100000} - 1$	30114	L95	09	Sophie Germain (p)
42855	$(11379^{7411} - 1)/11378$	30056	x14	09	Generalized repunit
42922	$49363 \cdot 2^{98727} - 1$	29725	Y	97	Woodall
42926	$U(2341, -1, 8819)$	29712	x25	08	Generalized Lucas number
43435	$18912879 \cdot 2^{98396} - 1$	29628	p94	02	Sophie Germain ( $2p + 1$ )
43436	$18912879 \cdot 2^{98395} - 1$	29628	p94	02	Sophie Germain (p)
44444	$\text{prim}V(24127, -1, 6718)$	29433	CH3	05	Generalized Lucas primitive part
44578	$(13320^{6997} - 1)/13319$	28856	x14	10	Generalized repunit
44625	$\text{prim}V(45922, 1, 11520)$	28644	x25	11	Generalized Lucas primitive part
44637	$\text{prim}V(205011)$	28552	x39	09	Lucas primitive part
44668	$U(16531, 1, 6721) -$ $U(16531, 1, 6720)$	28347	x36	07	Lehmer number
44712	$581627055 \cdot 2^{93182} + 1$	28060	p35	09	Cunningham chain 2nd kind ( $2p - 1$ )
44713	$581627055 \cdot 2^{93181} + 1$	28060	p35	09	Cunningham chain 2nd kind (p)
44848	$90825 \cdot 2^{90825} + 1$	27347	Y	97	Cullen
45011	$\text{prim}V(5673, 1, 13500)$	27028	CH3	05	Generalized Lucas primitive part
45125	$3364553235 \cdot 2^{88889} - 1$	26768	L652	09	Sophie Germain ( $2p + 1$ )
45126	$3364553235 \cdot 2^{88888} - 1$	26768	L652	09	Sophie Germain (p)
45127	$\text{prim}V(44368, 1, 9504)$	26768	CH3	05	Generalized Lucas primitive part
45174	$(3429^{7549} - 1)/3428$	26684	x14	09	Generalized repunit
45378	$\text{prim}V(10986, -1, 9756)$	26185	x23	05	Generalized Lucas primitive part
45462	$2^{86243} - 1$	25962	S	82	Mersenne 28
45479	$\text{prim}V(11076, -1, 12000)$	25885	x25	05	Generalized Lucas primitive part
45559	$2^{85237} + 2^{42619} + 1$	25659	x16	00	Gaussian Mersenne norm 31
45637	$\text{prim}V(17505, 1, 11250)$	25459	x25	11	Generalized Lucas primitive part
45693	$\text{prim}V(42, -1, 23376)$	25249	x23	07	Generalized Lucas primitive part
45729	$\text{prim}V(7577, -1, 10692)$	25140	x33	07	Generalized Lucas primitive part
45735	$\text{prim}V(44573, -1, 10125)$	25105	CH4	07	Generalized Lucas primitive part
45757	$10495740081 \cdot 2^{83126} - 1$	25034	L99	06	Sophie Germain ( $2p + 1$ )

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45758	$10495740081 \cdot 2^{83125} - 1$	25034	L99	06	Sophie Germain (p)
45819	$\text{prim}V(13896, 1, 11250)$	24858	x25	11	Generalized Lucas primitive part
45852	$61078155 \cdot 2^{82003} - 1$	24694	L99	06	Sophie Germain ( $2p + 1$ )
45853	$61078155 \cdot 2^{82002} - 1$	24693	L99	06	Sophie Germain (p)
45856	$\text{prim}V(19285, 1, 10800)$	24683	x25	05	Generalized Lucas primitive part
45899	$(13096^{5953} - 1)/13095$	24506	CH6	07	Generalized repunit
45944	$\text{prim}V(2425, 1, 13500)$	24370	x23	06	Generalized Lucas primitive part
46554	$492590931 \cdot 2^{80000} - 1631979959 \cdot 2^{25001} - 1$	24092	p199	10	Arithmetic progression ( $4, d = 164196977 \cdot 2^{80000} - 1631979959 \cdot 2^{25000}$ )
46663	$\text{prim}V(14261, 1, 10800)$	23928	x23	05	Generalized Lucas primitive part
46675	$\text{prim}V(13964, 1, 8856)$	23876	CH3	05	Generalized Lucas primitive part
46746	$6917! - 1$	23560	g1	98	Factorial
46782	$(89^{11971} - 1)/88$	23335	CH2	09	Generalized repunit
46784	$(23151^{5347} - 1)/23150$	23333	x14	08	Generalized repunit
46799	$2^{77291} + 2^{38646} + 1$	23267	O	00	Gaussian Mersenne norm 30
46840	$(5855^{6121} - 1)/5854$	23058	CH1	05	Generalized repunit
46982	$(2008^{6781} - 1)/2007$	22393	CH6	10	Generalized repunit
47166	$U(19258, -1, 5039)$	21586	x23	07	Generalized Lucas number
47193	$6380! + 1$	21507	g1	98	Factorial
47276	$(19979^{4933} - 1)/19978$	21211	x14	11	Generalized repunit
47305	$U(15631, 1, 5040) - U(15631, 1, 5039)$	21134	x25	03	Lehmer number
47461	[ Long prime 47461 ]	20562	FE1	06	ECPP, Mills' prime
47520	$U(11200, -1, 5039)$	20400	x25	04	Generalized Lucas number, cyclotomy
47757	$(9473^{4969} - 1)/9472$	19756	CH2	08	Generalized repunit
48643	$(14261^{4663} - 1)/14260$	19367	x14	07	Generalized repunit
48814	$U(6584, -1, 5039)$	19238	x23	07	Generalized Lucas number
48911	$(13782^{4591} - 1)/13781$	19000	x14	07	Generalized repunit
48933	$(15637^{4513} - 1)/15636$	18925	x14	07	Generalized repunit
49219	$42209\# + 1$	18241	p8	99	Primorial
49759	$7457 \cdot 2^{59659} + 1$	17964	Y	97	Cullen
49781	$(18067^{4201} - 1)/18066$	17879	x14	02	Generalized repunit
49906	$(20250^{4099} - 1)/20249$	17648	x14	10	Generalized repunit
50057	$U(9657, 1, 4321) - U(9657, 1, 4320)$	17215	x23	05	Lehmer number
50107	$U(81839)$	17103	p54	01	Fibonacci number
50309	$U(15823, 1, 3960) - U(15823, 1, 3959)$	16625	x25	02	Lehmer number, cyclotomy
50374	$U(10803, 1, 4081) - U(10803, 1, 4080)$	16457	x25	05	Lehmer number, cyclotomy
50411	$U(11091, -1, 4049)$	16375	CH3	05	Generalized Lucas number
50458	$(V(21151, 1, 3777) - 1)/(V(21151, 1, 3) - 1)$	16324	x25	11	Lehmer primitive part
50494	$U(2554, -1, 4751)$	16185	CH3	05	Generalized Lucas number
50518	$U(1599, -1, 5039)$	16141	x23	07	Generalized Lucas number
50579	$U(10853, 1, 3960) + U(10853, 1, 3959)$	15977	x25	02	Lehmer number, cyclotomy
50769	$U(9667, 1, 3960) - U(9667, 1, 3959)$	15778	x25	02	Lehmer number, cyclotomy

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50790	$U(14257, -1, 3779)$	15694	x25	04	Generalized Lucas number, cyclotomy
50858	[ Long prime 50858 ]	15537	x38	09	Lehmer primitive part
50978	$U(13283, 1, 3697) +$ $U(13283, 1, 3696)$	15240	x25	11	Lehmer number
51170	$2638^{4405} + 4405^{2638}$	15071	FE3	04	ECPP
51900	$1008075799 \cdot 34687\# + 1$	15004	p252	10	Arithmetic progression ( $4, d = 2571033 \cdot 34687\#$ )
51948	$U(8747, 1, 3780) +$ $U(8747, 1, 3779)$	14897	x25	05	Lehmer number
51953	$(2147483647^{1597} - 1)/1361551397315358942$	14885	FE7	09	ECPP
51979	$U(25700, 1, 3360) +$ $U(25700, 1, 3359)$	14813	x25	04	Lehmer number, cyclotomy
51980	$2^{49207} - 2^{24604} + 1$	14813	x16	00	Gaussian Mersenne norm 29
52058	$U(1493, -1, 4621)$	14665	CH3	05	Generalized Lucas number
52073	$U(4951, 1, 3960) -$ $U(4951, 1, 3959)$	14628	CH3	05	Lehmer number
52250	$U(12924, -12925, 3499)$	14382	x25	05	Generalized Lucas number
52305	$U(12113, -1, 3499)$	14284	CH3	05	Generalized Lucas number
52312	$U(5192, 1, 3841) -$ $U(5192, 1, 3840)$	14267	x23	05	Lehmer number
52329	$U(2441, -1, 4201)$	14228	CH3	05	Generalized Lucas number
52335	$U(3865, 1, 3960) +$ $U(3865, 1, 3959)$	14202	x25	02	Lehmer number, cyclotomy
52437	$(V(5763, 1, 3753) + 1)/(V(5763, 1, 27) + 1)$	14013	x25	11	Lehmer primitive part
52600	$(V(5132, 1, 3753) + 1)/(V(5132, 1, 27) + 1)$	13825	x25	11	Lehmer primitive part
52768	$U(3645, 1, 3841) -$ $U(3645, 1, 3840)$	13677	x25	05	Lehmer number
52903	$U(13373, 1, 3300) -$ $U(13373, 1, 3299)$	13613	x25	11	Lehmer number
52917	$U(11194, -11195, 3361)$	13605	x25	04	Generalized Lucas number
53018	$263821581 \cdot 2^{45001} - 487069965 \cdot 2^{25002} - 1$	13556	p199	10	Arithmetic progression ( $4, d = 87940527 \cdot 2^{45001} - 487069965 \cdot 2^{25001}$ )
53019	$4103163 \cdot 2^{45007} - 183009063 \cdot 2^{25003} - 1$	13556	p199	10	Arithmetic progression ( $4, d = 1367721 \cdot 2^{45007} - 183009063 \cdot 2^{25002}$ )
53036	$664227 \cdot 2^{45001} - 21037539 \cdot 2^{25006} - 1$	13553	p199	10	Arithmetic progression ( $4, d = 221409 \cdot 2^{45001} - 21037539 \cdot 2^{25005}$ )
53044	$U(2219, -1, 4049)$	13546	CH3	05	Generalized Lucas number
53124	$U(475, -1, 5039)$	13486	x25	03	Generalized Lucas number, cyclotomy
53141	$(V(3813, 1, 3771) - 1)/(V(3813, 1, 9) - 1)$	13473	x25	11	Lehmer primitive part
53381	$(V(3476, 1, 3771) - 1)/(V(3476, 1, 9) - 1)$	13322	x25	11	Lehmer primitive part
53386	$(V(3755, 1, 3753) - 1)/(V(3755, 1, 27) - 1)$	13319	x25	11	Lehmer primitive part

rank	description	digits	who	year	comment
53450	$U(7644, 1, 3421) -$ $U(7644, 1, 3420)$	13281	CH3	05	Lehmer number
53579	$(V(3177, 1, 3771) -$ $1)/(V(3177, 1, 9) - 1)$	13175	x25	11	Lehmer primitive part
53635	$U(10206, 1, 3276) -$ $U(10206, 1, 3275)$	13130	x23	05	Lehmer number
53638	$(V(3088, 1, 3771) +$ $1)/(V(3088, 1, 9) + 1)$	13129	x25	11	Lehmer primitive part
53764	$U(7537, -7538, 3361)$	13028	x23	07	Generalized Lucas number
53770	$U(7512, -7513, 3361)$	13023	x25	04	Generalized Lucas number
53786	$U(2783, -1, 3779)$	13014	CH3	05	Generalized Lucas number
53859	$U(7128, -1, 3361)$	12946	x25	04	Generalized Lucas number, cyclotomy
53900	$Phi(3243, -2399401)/33320592661$	12903	c54	10	ECPP
53936	$(2^{42737} + 1)/3$	12865	M	07	ECPP, generalized Lucas number, Wagstaff
53940	$U(12159, 1, 3150) -$ $U(12159, 1, 3149)$	12864	x25	05	Lehmer number, cyclotomy
54008	$U(5485, 1, 3421) +$ $U(5485, 1, 3420)$	12788	CH3	05	Lehmer number
54119	$(V(49596, 1, 3375) +$ $1)/(V(49596, 1, 675) + 1)$	12678	x25	06	Lehmer primitive part
54127	$(V(2278, 1, 3777) -$ $1)/(V(2278, 1, 3) - 1)$	12672	x25	11	Lehmer primitive part
54209	$(V(47025, 1, 3375) -$ $1)/(V(47025, 1, 675) - 1)$	12616	x25	06	Lehmer primitive part
54288	$(V(44524, 1, 3375) -$ $1)/(V(44524, 1, 675) - 1)$	12552	x23	06	Lehmer primitive part
54368	$U(6393, 1, 3276) -$ $U(6393, 1, 3275)$	12464	x25	05	Lehmer number, cyclotomy
54617	$(V(37511, 1, 3375) -$ $1)/(V(37511, 1, 675) - 1)$	12351	x25	06	Lehmer primitive part
54669	$(V(11610, 1, 3033) -$ $1)/(V(11610, 1, 9) - 1)$	12293	x25	11	Lehmer primitive part
54752	$(V(32362, 1, 3375) +$ $1)/(V(32362, 1, 675) + 1)$	12178	x23	06	Lehmer primitive part
54798	[ Long prime 54798 ]	12155	c54	11	ECPP
55165	$(V(30226, 1, 3375) -$ $1)/(V(30226, 1, 675) - 1)$	12098	x25	06	Lehmer primitive part
55307	$primV(57724)$	12063	p54	01	Lucas primitive part, cyclotomy
55426	$(V(5197, 1, 3321) -$ $1)/(V(5197, 1, 81) - 1)$	12040	x25	11	Lehmer primitive part
55567	$(V(8439, 1, 3033) -$ $1)/(V(8439, 1, 9) - 1)$	11874	x25	11	Lehmer primitive part
55737	$V(56003)$	11704	p193	06	Lucas number
55856	$2^{38090} + 47269$	11467	c51	10	ECPP
55950	$(V(1112, 1, 3753) +$ $1)/(V(1112, 1, 27) + 1)$	11350	x25	11	Lehmer primitive part
55960	$primU(67825)$	11336	x23	07	Fibonacci primitive part
55998	$3610! - 1$	11277	C	93	Factorial

rank	description	digits	who	year	comment
56202	$3507! - 1$	10912	C	92	Factorial
56284	$11889^8 + 8^{11889}$	10737	c57	12	ECPP
56291	$primV(77058)$	10729	CH3	05	Lucas primitive part
56306	$V(51169)$	10694	p54	01	Lucas number
56346	$U(50833)$	10624	CH4	05	Fibonacci number
56442	$primV(77841)$	10496	x25	05	Lucas primitive part
56451	$914546877 \cdot 2^{34774} - 1$	10477	L983	10	Cunningham chain ( $4p + 3$ )
56452	$914546877 \cdot 2^{34773} - 1$	10477	L983	10	Cunningham chain ( $2p + 1$ )
56453	$914546877 \cdot 2^{34772} - 1$	10477	L983	10	Cunningham chain (p)
56459	$Phi(561, 4366^9)/361212114583$	10472	c13	11	ECPP
56481	$2^{34653} + 1200830409$	10432	c57	11	ECPP
56506	$24029\# + 1$	10387	C	93	Primorial
56511	$Phi(4641, 32556)/(258503701 \cdot 84419168107)$	10378	c54	11	ECPP
56532	$6 \cdot Bern(4306)/2153$	10342	FE8	09	Irregular, ECPP
56568	$23801\# + 1$	10273	C	93	Primorial
56590	$59056921173 \cdot 2^{34030} + 7$	10255	FE6	09	ECPP
56685	$p(82352631)$	10101	c56	12	Partitions, ECPP
56686	$2^{33548} + 4471$	10099	c18	09	ECPP
56688	$1234^{3265} + 3265^{1234}$	10094	FE1	05	ECPP
56700	$Phi(427, -10^{28})$	10081	FE9	09	Unique, ECPP
56708	$2730^{2930} + 2930^{2730}$	10073	FE1	05	ECPP
56722	$2072644824759 \cdot 2^{33333} + 5$	10047	FE5	08	Triplet (3), ECPP
56723	$2072644824759 \cdot 2^{33333} + 1$	10047	L645	08	Triplet (2)
56724	$2072644824759 \cdot 2^{33333} - 1$	10047	L645	08	Triplet (1)
56796	$648^{3571} + 3571^{648}$	10041	M	03	ECPP
57053	$p(80036992)$	9958	c46	11	Partitions, ECPP
57163	$32469 \cdot 2^{32469} + 1$	9779	MM	97	Cullen
57190	$8073 \cdot 2^{32294} + 1$	9726	MM	97	Cullen
57474	$V(44507)$	9302	CH3	05	Lucas number
57628	$p(67230446)$	9126	c56	11	Partitions, ECPP
58087	$(2^{28771} - 1)/104726441$	8653	c56	12	Mersenne cofactor, ECPP
58177	$Phi(6105, -1000)$	8641	c47	10	Unique, ECPP
58193	$p(60016427)$	8622	c46	11	Partitions, ECPP
58360	$Phi(4667, -100)$	8593	c47	09	Unique, ECPP
58637	$2^{27529} - 2^{13765} + 1$	8288	O	00	Gaussian Mersenne norm 28
58645	$V(39607)/158429$	8273	c46	11	Lucas cofactor
58686	$p(54534155)$	8219	c56	11	Partitions, ECPP
58715	$primV(39124)$	8176	CH3	05	Lucas primitive part
58716	$379185609 \cdot 2^{27129} - 1$	8176	L983	09	Cunningham chain ( $4p + 3$ )
58718	$379185609 \cdot 2^{27128} - 1$	8175	L983	09	Cunningham chain ( $2p + 1$ )
58719	$379185609 \cdot 2^{27127} - 1$	8175	L983	09	Cunningham chain (p)
58757	$82659189 \cdot 2^{26999} + 1$	8136	L983	10	Cunningham chain 2nd kind ( $4p - 3$ )
58760	$173028555 \cdot 2^{26995} + 1$	8135	L983	10	Cunningham chain 2nd kind ( $4p - 3$ )
58811	[ Long prime 58811 ]	8063	c55	11	Mersenne cofactor, ECPP
58861	$p(51831641)$	8012	c56	11	Partitions, ECPP
58872	$18523\# + 1$	8002	D	89	Primorial
58883	$42989535 \cdot 2^{26545} + 1$	7999	L983	10	Cunningham chain 2nd kind ( $4p - 3$ )

rank	description	digits	who	year	comment
58924	$164210699973 \cdot 2^{26328} - 1$	7937	p158	06	Cunningham chain ( $4p + 3$ )
58926	$164210699973 \cdot 2^{26327} - 1$	7937	p158	06	Cunningham chain ( $2p + 1$ )
58927	$164210699973 \cdot 2^{26326} - 1$	7937	p158	06	Cunningham chain (p)
58970	$p(50001890)$	7869	c46	11	Partitions, ECPP
58986	$U(37511)$	7839	x13	05	Fibonacci number
59048	$U(37217)/4466041$	7771	c46	11	Fibonacci cofactor, ECPP
59060	$-E(2762)/2670541$	7760	c11	04	Euler irregular, ECPP
59144	$V(36779)$	7687	CH3	05	Lucas number
59568	$197418203 \cdot 2^{25000} + 6089$	7535	FE4	05	ECPP, consecutive primes arithmetic progression ( $3, d = 6090$ )
59569	$197418203 \cdot 2^{25000} - 1$	7535	p164	05	Consecutive primes arithmetic progression ( $2, d = 6090$ )
59570	$197418203 \cdot 2^{25000} - 6091$	7535	FE4	05	ECPP, consecutive primes arithmetic progression ( $1, d = 6090$ )
59622	$U(35999)$	7523	p54	01	Fibonacci number, cyclotomy
59641	$Phi(4029, -1000)$	7488	c47	09	Unique, ECPP
59732	$V(35449)$	7409	p12	01	Lucas number
59737	$87 \cdot 2^{24582} + 2579$	7402	c31	04	ECPP, consecutive primes arithmetic progression ( $3, d = 1290$ )
59738	$87 \cdot 2^{24582} + 1289$	7402	c31	04	ECPP, consecutive primes arithmetic progression ( $2, d = 1290$ )
59739	$87 \cdot 2^{24582} - 1$	7402	g106	99	Consecutive primes arithmetic progression ( $1, d = 1290$ ) [c31]
59988	$V(34759)/27112021$	7257	c33	05	Lucas cofactor, ECPP
60179	$Phi(9455, -10)$	7200	c33	05	Unique, ECPP
60224	$Phi(1479, -100000000)$	7168	c47	09	Unique, ECPP
60275	$p(41197951)$	7142	c56	11	Partitions, ECPP
60717	$p(40100918)$	7047	c46	11	Partitions, ECPP
60866	$164084347 \cdot 16229\# + 1$	7009	p155	09	Arithmetic progression ( $5, d = 20333209 \cdot 16229\#$ )
60882	$p(39576498)$	7000	c56	11	Partitions, ECPP
60972	$primA(82975)$	6935	p54	01	Lucas Aurifeuillian primitive part
60983	$23005 \cdot 2^{23005} - 1$	6930	Y	97	Woodall
60996	$22971 \cdot 2^{22971} - 1$	6920	Y	97	Woodall
61002	$2852851249 \cdot 16001\#/5 + 1$	6913	p199	08	Arithmetic progression ( $5, d = 2653152 \cdot 16001\#$ )
61007	$2399771561 \cdot 16001\#/5 + 1$	6913	p199	08	Arithmetic progression ( $5, d = 86574302 \cdot 16001\#$ )
61009	$1638535589 \cdot 16001\#/5 + 1$	6913	p199	08	Arithmetic progression ( $5, d = 2003735 \cdot 16001\#$ )
61016	$Phi(2405, -10000)$	6912	c47	09	Unique, ECPP
61086	$15877\# - 1$	6845	CD	92	Primorial
61091	$Phi(10887, 10)$	6841	c33	05	Unique, ECPP
61169	$primV(48381)$	6741	x23	05	Lucas primitive part
61172	$primU(40295)$	6737	p12	01	Fibonacci primitive part
61302	$primV(39700)$	6621	p54	01	Lucas primitive part
61560	$U(30757)$	6428	p54	01	Fibonacci number, cyclotomy
61607	$U(30671)/1141737296775689$	6395	c41	05	Fibonacci cofactor, ECPP
61763	$Phi(7357, -10)$	6301	c33	04	Unique, ECPP

rank	description	digits	who	year	comment
61825	$\text{Phi}(6437, 10)$	6240	c47	08	Unique, ECPP
61837	[ Long prime 61837 ]	6229	c4	09	Mersenne cofactor, ECPP
61844	$5612052289 \cdot 14489\#/5 + 5$	6223	c18	08	Triplet (3), ECPP
61845	$5612052289 \cdot 14489\#/5 + 1$	6223	p41	08	Triplet (2)
61846	$5612052289 \cdot 14489\#/5 - 1$	6223	p41	08	Triplet (1)
61950	$p(30248445)$	6119	c46	11	Partitions, ECPP
61951	$p(30245335)$	6119	c46	11	Partitions, ECPP
61952	$p(30244992)$	6119	c46	11	Partitions, ECPP
61956	$p(30191251)$	6113	c46	11	Partitions, ECPP
61961	$p(30158067)$	6110	c46	11	Partitions, ECPP
61963	$p(30147428)$	6109	c46	11	Partitions, ECPP
61967	$p(30117142)$	6106	c46	11	Partitions, ECPP
61972	$p(30086830)$	6103	c46	11	Partitions, ECPP
61977	$p(30054586)$	6099	c46	11	Partitions, ECPP
61979	$p(30037918)$	6098	c46	11	Partitions, ECPP
61991	$4811 \cdot 2^{20219} + 1$	6091	DM	96	Consecutive primes arithmetic progression (3, $d = 3738$ ) [c36]
61992	$4811 \cdot 2^{20219} - 3737$	6091	c36	04	ECPP, consecutive primes arithmetic progression (2, $d = 3738$ )
61993	$4811 \cdot 2^{20219} - 7475$	6091	c36	04	ECPP, consecutive primes arithmetic progression (1, $d = 3738$ )
62010	$\text{prim}U(43653)$	6082	CH7	10	Fibonacci primitive part
62077	$\text{prim}V(29657)$	6057	c11	09	Lucas primitive part, ECPP
62135	$3020255265 \cdot 2^{20025} - 1$	6038	p133	05	Cunningham chain ( $4p + 3$ )
62137	$3020255265 \cdot 2^{20024} - 1$	6038	p133	05	Cunningham chain ( $2p + 1$ )
62138	$3020255265 \cdot 2^{20023} - 1$	6038	p133	05	Cunningham chain ( $p$ )
62268	$\text{prim}V(28844)$	6028	p12	01	Lucas primitive part
62550	$13649\# + 1$	5862	D	87	Primorial
62564	$55339803 \cdot 2^{19402} + 1$	5849	L983	09	Cunningham chain 2nd kind ( $4p - 3$ )
62618	$V(27827)/3579579016301$	5803	c4	11	Lucas cofactor, ECPP
62736	$18885 \cdot 2^{18885} - 1$	5690	K	87	Woodall
62878	$1963! - 1$	5614	CD	92	Factorial
62883	$13033\# - 1$	5610	CD	92	Primorial
62918	$289 \cdot 2^{18502} + 1$	5573	K	84	Cullen, generalized Fermat
63041	$\text{prim}V(35620)$	5458	c48	10	Lucas primitive part, ECPP
63130	$E(2028)/11246153954845684745$	5412	c55	11	Euler irregular, ECPP
63177	$387977793 \cdot 2^{17866} + 1$	5387	L983	09	Cunningham chain 2nd kind ( $4p - 3$ )
63524	$U(25561)$	5342	p54	01	Fibonacci number
63580	$V(25577)/147374713548027019$	5329	c4	11	Lucas cofactor, ECPP
63584	$\text{prim}V(25504)$	5324	F3	01	Lucas primitive part, APR-CL assisted
63640	[ Long prime 63640 ]	5274	c4	09	Mersenne cofactor, ECPP
63946	[ Long prime 63946 ]	5132	p179	06	Triplet (3)
63947	[ Long prime 63947 ]	5132	p179	06	Triplet (2)
63948	[ Long prime 63948 ]	5132	p179	06	Triplet (1)
63949	[ Long prime 63949 ]	5132	p179	06	Triplet (3)
63950	[ Long prime 63950 ]	5132	p179	06	Triplet (2)
63951	[ Long prime 63951 ]	5132	p179	06	Triplet (1)

rank	description	digits	who	year	comment
63952	[ Long prime 63952 ]	5132	p179	06	Consecutive primes arithmetic progression ( $3, d = 6$ )
63953	[ Long prime 63953 ]	5132	p179	06	Consecutive primes arithmetic progression ( $2, d = 6$ )
63954	[ Long prime 63954 ]	5132	p179	06	Consecutive primes arithmetic progression ( $1, d = 6$ )
63955	[ Long prime 63955 ]	5132	p179	05	Triplet (3)
63956	[ Long prime 63956 ]	5132	p179	05	Triplet (2)
63957	[ Long prime 63957 ]	5132	p179	05	Triplet (1)
63961	[ Long prime 63961 ]	5132	p179	05	Consecutive primes arithmetic progression ( $3, d = 6$ )
63962	[ Long prime 63962 ]	5132	p179	05	Consecutive primes arithmetic progression ( $2, d = 6$ )
63963	[ Long prime 63963 ]	5132	p179	05	Consecutive primes arithmetic progression ( $1, d = 6$ )
63964	[ Long prime 63964 ]	5132	p179	07	Arithmetic progression ( $5, d = (681402540 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) \cdot (205881 \cdot 4001\# - 1)/35)$ )
64058	$(2^{17029} - 1)/418879343$	5118	c8	06	Mersenne cofactor, ECPP
64186	$33957462 \cdot \text{Bern}(2370)/40685$	5083	c11	03	Irregular, ECPP
64476	$\text{prim}V(24998)$	5033	c48	08	Lucas primitive part, ECPP
64696	$16219299585 \cdot 2^{16614} - 1$	5012	p158	05	Cunningham chain ( $4p + 3$ )
64697	$16219299585 \cdot 2^{16613} - 1$	5012	p158	05	Cunningham chain ( $2p + 1$ )
64698	$16219299585 \cdot 2^{16612} - 1$	5011	p158	05	Cunningham chain (p)
64931	$\text{prim}A(95475)$	4966	c4	09	Lucas Aurifeuillian primitive part, ECPP
64943	$11549\# + 1$	4951	D	86	Primorial
64944	$\text{prim}V(24383)$	4951	c4	09	Lucas primitive part, ECPP
65404	$\text{prim}V(27167)$	4866	c4	09	Lucas primitive part, ECPP
65438	$\text{prim}V(28940)$	4836	c4	09	Lucas primitive part, ECPP
65456	[ Long prime 65456 ]	4812	c4	11	Euler irregular, ECPP
65490	$7911 \cdot 2^{15823} - 1$	4768	K	87	Woodall
65508	$V(22811)/(2469062641 \cdot 84961206854418761)$	4741	c8	04	Lucas cofactor, ECPP
65546	$\text{prim}U(25493)$	4695	c8	07	Fibonacci primitive part, ECPP
65883	$\text{prim}B(95655)$	4564	c4	09	Lucas Aurifeuillian primitive part, ECPP
65887	$\text{Phi}(6685, -10)$	4560	c8	03	Unique, ECPP
66048	$\text{prim}V(29810)$	4515	c8	04	Lucas primitive part, ECPP
66075	[ Long prime 66075 ]	4498	c4	04	Euler irregular, ECPP
66098	[ Long prime 66098 ]	4479	c8	04	Fibonacci cofactor, ECPP
66123	$\text{prim}U(34593)$	4444	c8	07	Fibonacci primitive part, ECPP
66124	$\text{prim}A(53155)$	4444	x25	02	Lucas Aurifeuillian primitive part, cyclotomy
66136	$2^{14699} + 2^{7350} + 1$	4425	O	00	Gaussian Mersenne norm 27
66145	$\text{prim}U(38181)$	4414	c8	07	Fibonacci primitive part, ECPP
66148	$\text{prim}A(52825)$	4414	x25	03	Lucas Aurifeuillian primitive part
66176	$\text{prim}B(79125)$	4389	c4	09	Lucas Aurifeuillian primitive part, ECPP

rank	description	digits	who	year	comment
66195	$(2^{14561} - 1)/8074991336582835391$	4365	c8	04	Mersenne cofactor, ECPP
66196	[ Long prime 66196 ]	4365	c4	08	Mersenne cofactor, ECPP
66200	$\text{Phi}(3273, -100)$	4361	c8	03	Unique, ECPP
66202	$(2^{14479} + 1)/3$	4359	c4	04	Generalized Lucas number, Wagstaff, ECPP
66221	$\text{Phi}(1087, -10000)$	4344	c8	02	Unique, ECPP
66368	$\text{prim}B(56815)$	4314	c4	09	Lucas Aurifeuillian primitive part, ECPP
66381	$\text{prim}V(20578)$	4301	p54	01	Lucas primitive part
66414	$\text{prim}U(21053)$	4274	c8	07	Fibonacci primitive part, ECPP
66421	$\text{prim}U(31209)$	4264	c8	07	Fibonacci primitive part, ECPP
66441	$\text{prim}V(21298)$	4249	c4	09	Lucas primitive part, ECPP
66466	$\text{Phi}(483, -10^{16})$	4224	c8	02	Unique, ECPP
66482	[ Long prime 66482 ]	4200	c8	03	Irregular, ECPP
66483	$\text{prim}U(25115)$	4199	CH3	05	Fibonacci primitive part
66512	$\text{prim}U(30687)$	4173	c8	07	Fibonacci primitive part, ECPP
66645	$V(19469)$	4069	x25	02	Lucas number, cyclotomy, APR-CL assisted
66688	$1477! + 1$	4042	D	84	Factorial
66915	[ Long prime 66915 ]	4002	c8	04	Fibonacci cofactor, ECPP
66917	$\text{prim}V(19148)$	4001	p12	01	Lucas primitive part
66934	$U(19051)/44198321$	3974	c8	04	Fibonacci cofactor, ECPP
66959	$U(18919)/1497228584233$	3942	c8	04	Fibonacci cofactor, ECPP
66963	$\text{prim}U(22939)$	3933	c8	07	Fibonacci primitive part, ECPP
66979	$\text{Phi}(1959, 1000)$	3912	c8	02	Unique, ECPP
66995	$\text{prim}A(52855)$	3888	c4	09	Lucas Aurifeuillian primitive part, ECPP
66998	$\text{prim}U(23009)$	3883	c8	07	Fibonacci primitive part, ECPP
66999	$\text{prim}V(18857)$	3882	c4	09	Lucas primitive part, ECPP
67012	$-2730 \cdot \text{Bern}(1884)/100983617849$	3844	c8	03	Irregular, ECPP
67030	$2840178 \cdot \text{Bern}(1870)/85$	3821	c8	03	Irregular, ECPP
67036	[ Long prime 67036 ]	3815	c8	04	Fibonacci cofactor, ECPP
67092	$\text{Phi}(955, -100000)$	3801	c8	02	Unique, ECPP
67118	[ Long prime 67118 ]	3734	c8	03	Irregular, ECPP
67120	$12379 \cdot 2^{12379} - 1$	3731	K	84	Woodall
67121	$(2^{12391} + 1)/3$	3730	M	96	Generalized Lucas number, Wagstaff
67208	[ Long prime 67208 ]	3708	c4	08	Mersenne cofactor, ECPP
67240	$\text{prim}U(32985)$	3672	x23	07	Fibonacci primitive part
67243	[ Long prime 67243 ]	3671	c4	03	Euler irregular, ECPP
67266	$642 \cdot \text{Bern}(1802)/15720728189$	3641	c8	03	Irregular, ECPP
67346	$\text{prim}A(42685)$	3568	c46	08	Lucas Aurifeuillian primitive part
67347	$U(17137)/328335144266897$	3567	c8	04	Fibonacci cofactor, ECPP
67358	$\text{prim}U(18689)$	3549	c8	07	Fibonacci primitive part, ECPP
67362	$U(17011)/42109783293497$	3542	c8	04	Fibonacci cofactor
67363	$V(17029)/(9570299 \cdot 495749440031)$	3541	c8	04	Lucas cofactor, ECPP

rank	description	digits	who	year	comment
67384	$(2^{11813} - 1)/(70879 \cdot 207971134271377)$	3537	c8	02	Mersenne cofactor, ECPP
67410	$primU(41055)$	3531	c8	07	Fibonacci primitive part, ECPP
67456	$primA(45565)$	3512	c4	09	Lucas Aurifeuillian primitive part, ECPP
67497	$primU(34515)$	3491	c8	03	Fibonacci primitive part, ECPP
67529	$primU(20665)$	3455	DK	99	Fibonacci primitive part
67647	$primU(24699)$	3441	p54	01	Fibonacci primitive part
68324	$(2^{11279} + 1)/3$	3395	PM	98	Cyclotomy, generalized Lucas number, Wagstaff
68353	[ Long prime 68353 ]	3391	c8	04	Fibonacci cofactor, ECPP
68454	$primU(17221)$	3385	c8	03	Fibonacci primitive part, ECPP
68607	[ Long prime 68607 ]	3284	c4	11	Mersenne cofactor, ECPP
68616	$Phi(6135, 10)$	3265	c8	01	Unique, ECPP
68637	$V(15511)/394599841$	3234	c8	04	Lucas cofactor, ECPP
68638	$primU(23211)$	3233	DK	99	Fibonacci primitive part
68653	$(2^{10691} + 1)/3$	3218	c4	04	Generalized Lucas number, Wagstaff, ECPP
68659	$primA(41665)$	3211	c8	03	Lucas Aurifeuillian primitive part, ECPP
68709	$(2^{10501} + 1)/3$	3161	M	96	Generalized Lucas number, Wagstaff
68768	$V(14887)/1256071867381$	3100	c8	04	Lucas cofactor
68802	$Phi(3341, -10)$	3073	c8	01	Unique, ECPP
68824	$2^{10141} + 2^{5071} + 1$	3053	O	00	Gaussian Mersenne norm 26
68883	[ Long prime 68883 ]	3030	c4	10	Mersenne cofactor, ECPP
68891	[ Long prime 68891 ]	3022	c8	02	Mersenne cofactor, ECPP
68898	$V(14449)$	3020	DK	95	Lucas number
68902	$3124777373 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $7, d = 481789017 \cdot 7001\#$ )
68903	$2642988356 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $6, d = 481789017 \cdot 7001\#$ )
68904	$2584056471 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $6, d = 361827293 \cdot 7001\#$ )
68905	$2564678640 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $6, d = 102257083 \cdot 7001\#$ )
68906	$2539673373 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $6, d = 353407949 \cdot 7001\#$ )
68907	$2496510967 \cdot 7001\# + 1$	3019	p155	12	Arithmetic progression ( $6, d = 236679802 \cdot 7001\#$ )
69281	$U(14431)$	3016	p54	01	Fibonacci number
69363	$Phi(3011, -10)$	3010	F2	01	Unique, APR-CL assisted
69510	[ Long prime 69510 ]	2979	c8	02	Mersenne cofactor, ECPP
69535	$U(14177)/2199986861$	2954	c8	04	Fibonacci cofactor
69627	$V(13963)$	2919	c11	02	Lucas number, ECPP
69662	$primA(51945)$	2894	c8	03	Lucas Aurifeuillian primitive part, ECPP
69666	[ Long prime 69666 ]	2888	c8	02	Mersenne cofactor, ECPP
69686	[ Long prime 69686 ]	2876	c4	01	Mersenne cofactor, ECPP
69689	$9531 \cdot 2^{9531} - 1$	2874	K	84	Woodall

rank	description	digits	who	year	comment
69713	[ Long prime 69713 ]	2844	c2	01	Mersenne cofactor, ECPP
69722	9992783016 · 6599# - 1	2836	p295	11	Cunningham chain (8p + 7)
69749	6569# - 1	2811	D	92	Primorial
69789	<i>primB</i> (49785)	2774	c8	03	Lucas Aurifeuillian primitive part, ECPP
69876	$U(13063)/(4389169 \cdot 10370895133369)$	2710	c8	04	Fibonacci cofactor
69924	<i>primA</i> (52275)	2676	c8	03	Lucas Aurifeuillian primitive part, ECPP
69967	$U(12743)/8869129$	2656	c8	04	Fibonacci cofactor
70000	[ Long prime 70000 ]	2637	c4	01	Mersenne cofactor, ECPP
70014	<i>primB</i> (48375)	2634	F3	01	Lucas Aurifeuillian primitive part, APR-CL assisted
70078	$V(12503)/4954888889$	2604	c8	04	Lucas cofactor
70080	<i>primB</i> (31145)	2603	p54	01	Lucas Aurifeuillian primitive part
70110	$\Phi(3903, 10)$	2600	p44	01	Unique
70340	<i>primB</i> (34045)	2584	c8	03	Lucas Aurifeuillian primitive part, ECPP
70373	$V(12457)/(1420099 \cdot 81953391325049801)$	2581	c8	04	Lucas cofactor, ECPP
70395	$-E(1078)/361898544439043$	2578	c4	02	Euler irregular, ECPP
70619	$V(12251)$	2561	p54	01	Lucas number
70902	<i>primA</i> (47235)	2538	c8	03	Lucas Aurifeuillian primitive part, ECPP
71251	<i>primB</i> (53625)	2508	c8	03	Lucas Aurifeuillian primitive part, ECPP
71293	$46359065729523 \cdot 2^{8258} + 7$	2500	c26	11	Quadruplet (4)
71294	$46359065729523 \cdot 2^{8258} + 5$	2500	c26	11	Quadruplet (3)
71295	$46359065729523 \cdot 2^{8258} + 1$	2500	L165	11	Quadruplet (2)
71296	$46359065729523 \cdot 2^{8258} - 1$	2500	L165	11	Quadruplet (1)
71371	974! - 1	2490	CD	92	Factorial
71815	$U(11807)/(231936709 \cdot 1129990105451996281)$	2441	c8	04	Fibonacci cofactor, ECPP
71852	$E(1028)/(6415 \cdot 56837916301577)$	2433	c4	02	Euler irregular, ECPP
71861	$V(11657)/69172639$	2429	c8	04	Lucas cofactor
71992	<i>primB</i> (45105)	2407	c8	03	Lucas Aurifeuillian primitive part, ECPP
72013	$1367848532291 \cdot 5591\#/35 + 7$	2401	c18	11	Quadruplet (4), ECPP
72014	$1367848532291 \cdot 5591\#/35 + 5$	2401	c18	11	Quadruplet (3), ECPP
72015	$1367848532291 \cdot 5591\#/35 + 1$	2401	p41	11	Quadruplet (2)
72016	$1367848532291 \cdot 5591\#/35 - 1$	2401	p41	11	Quadruplet (1)
72080	$E(1004)/(579851915 \cdot 80533376783)$	2364	c4	02	Euler irregular, ECPP
72081	$V(11393)/(3076111 \cdot 5299498382701)$	2362	c8	04	Lucas cofactor
72091	$953477584 \cdot 5501\# - 1$	2355	p133	05	Cunningham chain (8p + 7)
72170	[ Long prime 72170 ]	2346	c8	04	Fibonacci cofactor, ECPP
72269	$V(11261)/16823009787209$	2341	c8	04	Lucas cofactor
72316	$U(11279)/(34987457 \cdot 70263726073)$	2339	c8	04	Fibonacci cofactor

rank	description	digits	who	year	comment
72317	$7755 \cdot 2^{7755} - 1$	2339	K	84	Woodall
72542	$V(11213)/(224261 \cdot 1476324252027331181)$	2320	c8	04	Lucas cofactor, ECPP
72647	$U(11093)/544296421641613$	2304	c8	04	Fibonacci cofactor
72649	[ Long prime 72649 ]	2303	c2	01	Mersenne cofactor, ECPP
72678	$(2^{7673} - 1)/2563193011919$	2298	M1	97	Mersenne cofactor, cyclotomy
72758	[ Long prime 72758 ]	2286	c8	04	Lucas cofactor, ECPP
72839	[ Long prime 72839 ]	2276	c4	02	Irregular, ECPP
72861	$-36870 \cdot \text{Bern}(1228)/1043706675925609$	2272	c4	02	Irregular, ECPP
73081	$V(10691)$	2235	DK	95	Lucas number
73612	$(2^{7331} - 1)/458072843161$	2196	EM	97	Mersenne cofactor, ECPP
73647	$872! + 1$	2188	D	83	Factorial
73996	$25796119248 \cdot 4987\# / 35 + 7$	2135	c37	11	Quadruplet (4), ECPP
73997	$25796119248 \cdot 4987\# / 35 + 5$	2135	c37	11	Quadruplet (3), ECPP
73998	$25796119248 \cdot 4987\# / 35 + 1$	2135	p80	11	Quadruplet (2)
73999	$25796119248 \cdot 4987\# / 35 - 1$	2135	p80	11	Quadruplet (1)
74118	$V(10223)/6189385542632111$	2120	c8	04	Lucas cofactor, ECPP
74478	$5045589688 \cdot 4933\# + 1$	2106	p295	10	Cunningham chain 2nd kind ( $8p - 7$ )
74806	[ Long prime 74806 ]	2069	c4	02	Euler irregular, ECPP
74882	$4104082046 \cdot 4799\# + 5659$	2058	c18	05	Quadruplet (4), ECPP
74883	$4104082046 \cdot 4799\# + 5657$	2058	c18	05	Quadruplet (3), ECPP
74884	$4104082046 \cdot 4799\# + 5653$	2058	c18	05	Quadruplet (2), ECPP
74885	$4104082046 \cdot 4799\# + 5651$	2058	c18	05	Quadruplet (1), ECPP
74954	$V(9839)/491951$	2051	c8	04	Lucas cofactor
74961	$-E(886)/68689$	2051	c4	02	Euler irregular, ECPP
75071	$4787\# + 1$	2038	D	84	Primorial
75339	$U(9677)$	2023	c2	00	Fibonacci number, ECPP
75363	[ Long prime 75363 ]	2022	c8	04	Fibonacci cofactor
77079	[ Long prime 77079 ]	2003	c8	05	Fibonacci cofactor, ECPP
77175	$6611 \cdot 2^{6611} + 1$	1994	K	84	Cullen
77246	$4583\# - 1$	1953	D	92	Primorial
77268	$U(9311)$	1946	DK	95	Fibonacci number
77288	$4547\# + 1$	1939	D	84	Primorial
77433	[ Long prime 77433 ]	1879	c8	04	Lucas cofactor
77537	$4297\# - 1$	1844	D	92	Primorial
77577	$V(8807)/356419291$	1833	c8	04	Lucas cofactor
77587	$125848198864 \cdot 4253\# + 1$	1829	p199	10	Cunningham chain 2nd kind ( $8p - 7$ )
77588	$113419228920 \cdot 4253\# + 1$	1829	p199	10	Cunningham chain 2nd kind ( $8p - 7$ )
77591	$45912427272 \cdot 4253\# + 1$	1829	p199	10	Cunningham chain 2nd kind ( $8p - 7$ )
77806	$2^{5900} + 469721940591$	1777	c45	07	Consecutive primes arithmetic progression ( $4, d = 2880$ ), ECPP
77836	$11628008104 \cdot 4127\# + 1$	1770	p133	05	Cunningham chain 2nd kind ( $8p - 7$ )
77841	$V(8467)$	1770	c2	00	Lucas number, ECPP
77873	$18672891658 \cdot 4099\# + 1591789579$	1763	c14	03	ECPP, consecutive primes arithmetic progression ( $4, d = 210$ )

rank	description	digits	who	year	comment
77924	$4093\# - 1$	1750	CD	92	Primorial
77936	$5795 \cdot 2^{5795} + 1$	1749	K	84	Cullen
77942	$(2^{5807} + 1)/3$	1748	PM	98	Cyclotomy, generalized Lucas number, Wagstaff
78024	[ Long prime 78024 ]	1725	c8	04	Fibonacci cofactor
78184	[ Long prime 78184 ]	1678	c8	06	Lucas cofactor, ECPP
78393	$V(7741)$	1618	DK	95	Lucas number
78451	$20438086160 \cdot 3733\# - 1$	1605	p295	10	Cunningham chain $(8p + 7)$
78455	$17758152104 \cdot 3733\# - 1$	1605	p295	10	Cunningham chain $(8p + 7)$
78469	$83 \cdot 2^{5318} - 1$	1603	K	84	Woodall
78859	$65034205799 \cdot 3547\#/35 + 7$	1519	c37	11	Quadruplet (4), ECPP
78860	$65034205799 \cdot 3547\#/35 + 5$	1519	c37	11	Quadruplet (3), ECPP
78861	$65034205799 \cdot 3547\#/35 + 1$	1519	p80	11	Quadruplet (2)
78862	$65034205799 \cdot 3547\#/35 - 1$	1519	p80	11	Quadruplet (1)
79961	$4713 \cdot 2^{4713} + 1$	1423	K	84	Cullen
80035	[ Long prime 80035 ]	1418	c4	02	Irregular, ECPP
80225	$460226463 \cdot 3301\# + 1$	1402	p252	10	Arithmetic progression $(7, d = 30017636 \cdot 3301\#)$
80728	$3229\# + 1$	1368	D	84	Primorial
80760	$580182204072 \cdot 3203\# - 1$	1366	p295	11	Cunningham chain $(8p + 7)$
81336	[ Long prime 81336 ]	1343	c4	02	Euler irregular, ECPP
81661	$1233917739 \cdot 3121\# + 1$	1335	p155	10	Arithmetic progression $(7, d = 5893725 \cdot 3121\#)$
81935	$1461401630 \cdot 3109\# + 1$	1328	p252	09	Arithmetic progression $(7, d = 35777939 \cdot 3109\#)$
82421	$23^{963} + 1031392866$	1312	c32	05	Consecutive primes arithmetic progression $(4, d = 1500)$
82485	[ Long prime 82485 ]	1311	c4	02	Irregular, ECPP
83432	$833000864 \cdot 3011\# + 1$	1290	p155	06	Arithmetic progression $(7, d = 114858412 \cdot 3011\#)$
83910	$4919761805 \cdot 2999\# + 6763$	1284	c23	03	Consecutive primes arithmetic progression $(4, d = 30)$
85145	$546! - 1$	1260	D	92	Factorial
86355	$354 \cdot \text{Bern}(754)/(377 \cdot 883462452530494157)$	1225	c4	02	Irregular, ECPP
86430	$V(5851)$	1223	DK	95	Lucas number
87365	[ Long prime 87365 ]	1201	c8	02	Irregular, ECPP
88621	[ Long prime 88621 ]	1178	c4	02	Irregular, ECPP
90925	$1290733709840 \cdot 2677\# + 1$	1141	p295	11	Cunningham chain 2nd kind $(16p - 15)$
91442	$U(5387)$	1126	WM	90	Fibonacci number
91933	$720128166480 \cdot 2621\# + 1$	1117	p199	10	Cunningham chain 2nd kind $(16p - 15)$
92076	$2657\# + 1$	1115	BC	81	Primorial
92668	$424232794973 \cdot 2593\# + 43789$	1107	c18	09	Quintuplet (5), ECPP
92669	$424232794973 \cdot 2593\# + 43787$	1107	c18	09	Quintuplet (4), ECPP
92670	$424232794973 \cdot 2593\# + 43783$	1107	c18	09	Quintuplet (3), ECPP
92671	$424232794973 \cdot 2593\# + 43781$	1107	c18	09	Quintuplet (2), ECPP
92672	$424232794973 \cdot 2593\# + 43777$	1107	c18	09	Quintuplet (1), ECPP
93434	[ Long prime 93434 ]	1088	c4	02	Irregular, ECPP

rank	description	digits	who	year	comment
94079	$6 \cdot \text{Bern}(674)/337$	1077	c4	02	Irregular, ECPP
94480	$283534892623 \cdot 2477\# + 1091273$	1069	c18	06	Quintuplet (5), ECPP
94481	$283534892623 \cdot 2477\# + 1091269$	1069	c18	06	Quintuplet (4), ECPP
94482	$283534892623 \cdot 2477\# + 1091267$	1069	c18	06	Quintuplet (3), ECPP
94483	$283534892623 \cdot 2477\# + 1091263$	1069	c18	06	Quintuplet (2), ECPP
94484	$283534892623 \cdot 2477\# + 1091261$	1069	c18	06	Quintuplet (1), ECPP
94699	$(2^{3539} + 1)/3$	1065	M	89	First titanic by ECPP, generalized Lucas number, Wagstaff
94916	$-E(510)$	1062	c4	02	Euler irregular, ECPP
94966	[ Long prime 94966 ]	1060	c4	02	Euler irregular, ECPP
95174	$2968802755 \cdot 2459\# + 1$	1057	p155	09	Arithmetic progression ( $8, d = 359463429 \cdot 2459\#$ )
95368	$469! - 1$	1051	BC	81	Factorial
95422	$11^{1008} + 998672782$	1050	c32	05	Consecutive primes arithmetic progression ( $4, d = 1080$ )
95881	$142661157626 \cdot 2411\# + 71427877$	1038	c14	02	Consecutive primes arithmetic progression ( $5, d = 30$ )
95908	$45385928981256 \cdot 2399\# + 19429$	1037	c18	11	Quintuplet (5), ECPP
95909	$45385928981256 \cdot 2399\# + 19427$	1037	c18	11	Quintuplet (4), ECPP
95910	$45385928981256 \cdot 2399\# + 19423$	1037	c18	11	Quintuplet (3), ECPP
95911	$45385928981256 \cdot 2399\# + 19421$	1037	c18	11	Quintuplet (2), ECPP
95912	$45385928981256 \cdot 2399\# + 19417$	1037	c18	11	Quintuplet (1), ECPP
95947	$21917202736992 \cdot 2399\# + 19429$	1037	c18	11	Quintuplet (5), ECPP
95948	$21917202736992 \cdot 2399\# + 19427$	1037	c18	11	Quintuplet (4), ECPP
95949	$21917202736992 \cdot 2399\# + 19423$	1037	c18	11	Quintuplet (3), ECPP
95950	$21917202736992 \cdot 2399\# + 19421$	1037	c18	11	Quintuplet (2), ECPP
95951	$21917202736992 \cdot 2399\# + 19417$	1037	c18	11	Quintuplet (1), ECPP
95952	$21618999972620 \cdot 2399\# + 19429$	1037	c18	11	Quintuplet (5), ECPP
95953	$21618999972620 \cdot 2399\# + 19427$	1037	c18	11	Quintuplet (4), ECPP
95954	$21618999972620 \cdot 2399\# + 19423$	1037	c18	11	Quintuplet (3), ECPP
95955	$21618999972620 \cdot 2399\# + 19421$	1037	c18	11	Quintuplet (2), ECPP
95956	$21618999972620 \cdot 2399\# + 19417$	1037	c18	11	Quintuplet (1), ECPP
95999	$6179783529 \cdot 2411\# + 1$	1037	p102	03	Arithmetic progression ( $8, d = 176836494 \cdot 2411\#$ )
96332	$R(1031)$	1031	WD	85	Repunit
96673	$51800236080 \cdot 2377\# - 1$	1017	p295	11	Cunningham chain ( $16p + 15$ )
96754	$418059269664 \cdot 2371\# + 1$	1015	p308	11	Cunningham chain 2nd kind ( $16p - 15$ )
96779	$116040452086 \cdot 2371\# + 1$	1014	p308	12	Arithmetic progression ( $9, d = 6317280828 \cdot 2371\#$ )
96781	$109723171258 \cdot 2371\# + 1$	1014	p308	12	Arithmetic progression ( $8, d = 6317280828 \cdot 2371\#$ )
96790	$69318339141 \cdot 2371\# + 1$	1014	p308	11	Arithmetic progression ( $9, d = 1298717501 \cdot 2371\#$ )
96791	$68019621640 \cdot 2371\# + 1$	1014	p308	11	Arithmetic progression ( $8, d = 1298717501 \cdot 2371\#$ )
96793	$65743401770 \cdot 2371\# + 1$	1014	p308	12	Arithmetic progression ( $8, d = 249222930 \cdot 2371\#$ )
99326	$V(4793)$	1002	DK	95	Lucas number
99369	$V(4787)$	1001	DK	95	Lucas number

## 2 The Long Primes

These are the primes that were too long to fit above.

Prime with rank 2043 (275495 digits by p44)

$$\text{Phi}(3, 10^{137747}) + (137 \cdot 10^{137748} + 731 \cdot 10^{129293}) \cdot (10^{8454} - 1)/999$$

Prime with rank 3824 (221071 digits by x34)

$$\text{Phi}(5, (3668 \cdot 16001\# - 1) \cdot (378266 \cdot 16001\#/5 + 1)^7)$$

Prime with rank 19321 (127577 digits by p185)

$$10^{127576} + 1081101080188810801011801 \cdot 10^{63776} + 1$$

Prime with rank 47461 (20562 digits by FE1)

$$((((((2521008887^3 + 80)^3 + 12)^3 + 450)^3 + 894)^3 + 3636)^3 + 70756)^3 + 97220$$

Prime with rank 50858 (15537 digits by x38)

$$(U(9275, 1, 3961) + U(9275, 1, 3960))/(U(9275, 1, 45) + U(9275, 1, 44))$$

Prime with rank 54798 (12155 digits by c54)

$$\text{Phi}(5655, 34120)/(64772371 \cdot 35066801243156348783521)$$

Prime with rank 58811 (8063 digits by c55)

$$(2^{26903} - 1)/1113285395642134415541632833178044793$$

Prime with rank 61837 (6229 digits by c4)

$$(2^{20887} - 1)/(694257144641 \cdot 3156563122511 \cdot 28533972487913 \cdot 1893804442513836092687)$$

Prime with rank 63640 (5274 digits by c4)

$$(2^{17683} - 1)/(234000819833373807217 \cdot 62265855698776681155719328257)$$

Prime with rank 63946 (5132 digits by p179)

$$(99241437759 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 63947 (5132 digits by p179)

$$(99241437759 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 5$$

Prime with rank 63948 (5132 digits by p179)

$$(99241437759 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 1$$

Prime with rank 63949 (5132 digits by p179)

$$(91456744909 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 11$$

Prime with rank 63950 (5132 digits by p179)

$$(91456744909 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 63951 (5132 digits by p179)

$$(91456744909 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 5$$

Prime with rank 63952 (5132 digits by p179)

$$(84055657369 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 13$$

Prime with rank 63953 (5132 digits by p179)

$$(84055657369 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 63954 (5132 digits by p179)

$$(84055657369 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 1$$

Prime with rank 63955 (5132 digits by p179)

$$(63140956174 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 63956 (5132 digits by p179)

$$(63140956174 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 5$$

Prime with rank 63957 (5132 digits by p179)

$$(63140956174 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 1$$

Prime with rank 63961 (5132 digits by p179)

$$(61310346529 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 13$$

Prime with rank 63962 (5132 digits by p179)

$$(61310346529 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 63963 (5132 digits by p179)

$$(61310346529 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 1$$

Prime with rank 63964 (5132 digits by p179)

$$(51803036889 \cdot 205881 \cdot 4001\# \cdot (205881 \cdot 4001\# + 1) + 210) \cdot (205881 \cdot 4001\# - 1)/35 + 7$$

Prime with rank 65456 (4812 digits by c4)

$$E(1840)/31237282053878368942060412182384934425$$

Prime with rank 66075 (4498 digits by c4)

$$E(1736)/(55695515 \cdot 75284987831 \cdot 3222089324971117)$$

Prime with rank 66098 (4479 digits by c8)

$$U(21577)/(8626362776257 \cdot 608114436652075009)$$

Prime with rank 66196 (4365 digits by c4)

$$(2^{14621} - 1)/(1958650799081 \cdot 9787919624201558678734079)$$

Prime with rank 66482 (4200 digits by c8)

$$276474 \cdot \text{Bern}(2030)/(19426085 \cdot 24191786327543)$$

Prime with rank 66915 (4002 digits by c8)

$$U(19433)/(8200903423639793 \cdot 124790158973035710313 \cdot 163702910239586286961573)$$

Prime with rank 67036 (3815 digits by c8)

$$U(18427)/(1828363793 \cdot 23130933997 \cdot 11364458229549793)$$

Prime with rank 67118 (3734 digits by c8)

$$-197676570 \cdot 18851280661 \cdot \text{Bern}(1836)/(59789 \cdot 3927024469727)$$

Prime with rank 67208 (3708 digits by c4)

$$(2^{12451} - 1)/(4980401 \cdot 15289230353 \cdot 1143390212315192593598809)$$

Prime with rank 67243 (3671 digits by c4)

$$E(1468)/(95 \cdot 217158949445380764696306893 \cdot 597712879321361736404369071)$$

Prime with rank 68353 (3391 digits by c8)

$$U(16369)/(299022540829 \cdot 8523458822385578881)$$

Prime with rank 68607 (3284 digits by c4)

$$(2^{11117} - 1)/358196436964270608221221853970927519972222557196875442622337153$$

Prime with rank 68883 (3030 digits by c4)

$$(2^{10211} - 1)/306772303457009724362047724636324707614338377$$

Prime with rank 68891 (3022 digits by c8)

$$(2^{10169} - 1)/10402314702094700470118039921523041260063$$

Prime with rank 69510 (2979 digits by c8)

$$(2^{10007} - 1)/(14477908246561 \cdot 136255313 \cdot 10368448917257)$$

Prime with rank 69666 (2888 digits by c8)

$$(2^{9697} - 1)/(724126946527 \cdot 19092282046942032847)$$

Prime with rank 69686 (2876 digits by c4)

$$(2^{9733} - 1)/(2932747561 \cdot 353435802999708808999 \cdot 4424579967215442704801447)$$

Prime with rank 69713 (2844 digits by c2)

$$(2^{9901} - 1)/(87770464009 \cdot 4512717821471308759 \cdot 8336998551279784091551 \cdot 1017688752041649660766793 \cdot 25146117302614435382787771401 \cdot 1502440689076527620360606617623599)$$

Prime with rank 70000 (2637 digits by c4)

$$(2^{8849} - 1)/(52368383 \cdot 15264764469472455023)$$

Prime with rank 72170 (2346 digits by c8)

$$U(11393)/(38772745844002993 \cdot 2788032223609253801)$$

Prime with rank 72649 (2303 digits by c2)

$$(2^{7757} - 1)/233293220467553594643512097574361$$

Prime with rank 72758 (2286 digits by c8)

$V(11173)/(25206289 \cdot 28583254701767411959 \cdot 24018475125955094159731)$   
 Prime with rank 72839 (2276 digits by c4)  
 $-2090369190 \cdot \text{Bern}(1236)/(103 \cdot 939551962476779 \cdot 157517441360851951)$   
 Prime with rank 74806 (2069 digits by c4)  
 $-E(902)/(9756496279 \cdot 314344516832998594237)$   
 Prime with rank 75363 (2022 digits by c8)  
 $U(9931)/(3079452003211541 \cdot 122039293401017981 \cdot 604956242930486632441)$   
 Prime with rank 77079 (2003 digits by c8)  
 $U(9967)/(120801834061 \cdot 3105570884441 \cdot 1047583984031437 \cdot 22727240300133999677 \cdot 15086016388211003643481)$   
 Prime with rank 77433 (1879 digits by c8)  
 $V(9209)/(29745071 \cdot 101409509 \cdot 547683904686691 \cdot 4025749704474499)$   
 Prime with rank 78024 (1725 digits by c8)  
 $U(8537)/(900766408671673 \cdot 558828605201 \cdot 17191134589117 \cdot 9229577309895207361)$   
 Prime with rank 78184 (1678 digits by c8)  
 $V(8329)/(5533286033716829 \cdot 62798306322672929543921 \cdot 2398413145658705436562211)$   
 Prime with rank 80035 (1418 digits by c4)  
 $-54570 \cdot \text{Bern}(848)/(428478023 \cdot 5051145078213134269)$   
 Prime with rank 81336 (1343 digits by c4)  
 $-E(638)/(7235862947323 \cdot 11411779188663863 \cdot 526900327479624797)$   
 Prime with rank 82485 (1311 digits by c4)  
 $138 \cdot \text{Bern}(814)/(28409964671 \cdot 335055893 \cdot 351085907 \cdot 520460183 \cdot 30348030379 \cdot 17043083582983)$   
 Prime with rank 87365 (1201 digits by c8)  
 $-690 \cdot \text{Bern}(748)/(720511 \cdot 138192830377045750339532383)$   
 Prime with rank 88621 (1178 digits by c4)  
 $6 \cdot \text{Bern}(734)/(377231593 \cdot 75401119 \cdot 170508089)$   
 Prime with rank 93434 (1088 digits by c4)  
 $-88230 \cdot \text{Bern}(688)/(465776197109 \cdot 1913589601207)$   
 Prime with rank 94966 (1060 digits by c4)  
 $-E(526)/(5062100689 \cdot 71096484738291757946225730043997)$

### 3 Table of Proof-Codes

Key to Proof-Codes (primality provers):

code	description
BC	Penk, Buhler, Crandall
C	Caldwell, Cruncher
c2	Water, Primo
c4	Broadhurst, Primo
c8	Water, Broadhurst, Primo
c11	Oakes, Primo
c13	Steward, OpenPFGW, Primo
c14	Fougeron, Primo
c18	Luhn, Primo
c23	Andersen, Alm, OpenPFGW, Primo
c26	Keiser, OpenPFGW, Primo
c31	Andersen, Alm, Rosenthal, OpenPFGW, Primo
c32	DavisK, OpenPFGW, Primo
c33	Chaglassian, Primo
c36	Andersen, Willegen, Rosenthal, OpenPFGW, Primo
c37	Chaffey, Primo
c41	Andersen, Rosenthal, Primo
c45	DavisK, NewPGen, Primo
c46	Boncompagni, Primo
c47	Chandler, Primo
c48	Peets, OpenPFGW, Primo
c51	Luhn, Broadhurst, OpenPFGW, NewPGen, Primo
c54	$Wu_T$ , <i>Primo</i>
c55	Gramolin, Primo
c56	Soule, Minovic, OpenPFGW, Primo
c57	Kulsha, Primo
CD	Dubner, Caldwell, Cruncher
CH1	Soule, Minovic, CHG, Primo, OpenPFGW
CH2	$Wu_T$ , <i>CHG</i> , <i>Primo</i> , <i>OpenPFGW</i>
CH3	Water, Broadhurst, CHG, Primo, OpenPFGW
CH4	Irvine, Water, Broadhurst, CHG, Primo, OpenPFGW
CH6	Steward, CHG, Primo, OpenPFGW
CH7	Broadhurst, CHG, OpenPFGW
D	Dubner, Cruncher
DK	Dubner, Keller, Cruncher
DM	Demichel
DS	Smith <sub>Darren</sub> , <i>Proth.exe</i>
EM	Morain, Mayer
F2	Broadhurst, Primo, OpenPFGW, VFYPR
F3	Water, Broadhurst, VFYPR
f7	Heuer, ForEis, PhiSieve, OpenPFGW, PIES
f14	Hillegas, ForEis, PhiSieve, PIES
FE1	Morain, FastECPP
FE3	Wirth, Kleinjung, Franke, Morain, FastECPP
FE4	Morain, Broadhurst, FastECPP, OpenPFGW
FE5	Luhn, Morain, FastECPP
FE6	Jordan, Morain, FastECPP, LLR
FE7	Deng, Morain, FastECPP
FE8	Oakes, Morain, Water, Broadhurst, FastECPP
FE9	Morain, Water, Broadhurst, FastECPP

code	description
g0	Gallot, Proth.exe
g1	Caldwell, Proth.exe
G1	Armengaud, GIMPS, Prime95
G2	Spence, GIMPS, Prime95
G3	Clarkson, Kurowski, GIMPS, Prime95
G4	Hajratwala, Kurowski, GIMPS, Prime95
G5	Cameron, Kurowski, GIMPS, Prime95
G6	Shafer, GIMPS, Prime95
G7	Findley <sub>J</sub> , <i>GIMPS, Prime95</i>
G8	Nowak, GIMPS, Prime95
G9	Boone, Cooper, GIMPS, Prime95
G10	Smith <sub>E</sub> , <i>GIMPS, Prime95</i>
G11	Elvenich, GIMPS, Prime95
G12	Strindmo, GIMPS, Prime95
g23	Ballinger, Proth.exe
g25	OHare, Proth.exe
g55	Toplic, Proth.exe
g59	Linton, Proth.exe
g77	Lau, Proth.exe
g106	Kuechler, Proth.exe
g122	Nohara, Proth.exe
g124	Crickman, Proth.exe
g132	Cosgrave, Proth.exe
g148	Samidoost, Proth.exe
g157	Loeh, Proth.exe
g182	McElhatton, Proth.exe
g196	Odermatt, Proth.exe
g236	Heuer, GFNSearch, GFN17Sieve, Proth.exe
g245	Cosgrave, PRP, NewPGen, Proth.exe
g258	Neves, PRP, NewPGen, Proth.exe
g259	Papp, Proth.exe
g267	Grobstich, PRP, NewPGen, Proth.exe
g277	Eaton, PRP, NewPGen, Proth.exe
g279	Cooper, PRP, NewPGen, Proth.exe
g294	Underbakke, TwinGen, PRP, Proth.exe
g300	Zilmer, Proth.exe
g308	Angel, GFNSearch, GFN17Sieve, Proth.exe
g336	Tornberg, PRP, NewPGen, Proth.exe
g346	Dausch, ProthSieve, PRP, PrimeSierpinski, Proth.exe
g372	Adney, PRP, NewPGen, Proth.exe
g380	Tajima, PRP, NewPGen, Proth.exe
g387	Muzik, Proth.exe
g392	HermleGC, MultiSieve, OpenPFGW, Proth.exe
g403	Yoshimura, ProthSieve, LLR, PrimeSierpinski, Proth.exe
g404	Taniguchi, Proth.exe
g407	HermleGC, MultiSieve, PRP, Proth.exe
g411	Brittenham, PRP, NewPGen, Proth.exe
g413	Scott, AthGFNSieve, Proth.exe
g414	Gilvey, Srsieve, LLR, PrimeGrid, PrimeSierpinski, Proth.exe
g418	Taura, PRP, NewPGen, Proth.exe

code	description
g424	Broadhurst, OpenPFGW, NewPGen, Proth.exe
g425	Buechel, Keller, Broadhurst, PRP, OpenPFGW, Proth.exe
g426	Nemeth, OpenPFGW, NewPGen, Proth.exe
gm	Morii, Proth.exe
gt	Taura, Proth.exe
K	Keller
L47	Bishop <sub>D</sub> , <i>ProthSieve</i> , <i>RieselSieve</i> , LLR
L51	Hedges, PRP, NewPGen, LLR
L53	Zaveri, ProthSieve, PRP, RieselSieve, LLR
L62	Ewing, NewPGen, 12121search, LLR
L95	Urushi, LLR
L99	Underbakke, TwinGen, LLR
L100	Minovic, TwinGen, LLR
L113	Chatfield, NewPGen, LLR
L124	Rodenkirch, MultiSieve, LLR
L134	Childers, ProthSieve, RieselSieve, LLR
L137	Jaworski, Rieselprime, LLR
L145	Minovic, Ksieve, NewPGen, Rieselprime, LLR
L153	Eckhard, LLR
L158	Underwood, NewPGen, 321search, LLR
L160	Wong, ProthSieve, RieselSieve, LLR
L162	Banka, NewPGen, 12121search, LLR
L165	Keiser, OpenPFGW, NewPGen, LLR
L172	Smith, ProthSieve, RieselSieve, LLR
L175	Duggan, ProthSieve, RieselSieve, LLR
L179	White, ProthSieve, RieselSieve, LLR
L185	Hassler, NewPGen, LLR
L191	Banka, NewPGen, LLR
L192	Jaworski, LLR
L193	Rosink, ProthSieve, RieselSieve, LLR
L197	DaltonJ, ProthSieve, RieselSieve, LLR
L201	Siemelink, LLR
L202	Vautier, McKibbon, Gribenko, NewPGen, PrimeGrid, TPS, LLR
L203	Murata, LLR
L251	Burt, NewPGen, Rieselprime, LLR
L256	Underwood, Srsieve, NewPGen, 321search, LLR
L260	Soule, Srsieve, Rieselprime, LLR
L268	Metcalfe, Srsieve, Rieselprime, LLR
L282	Curtis, Srsieve, Rieselprime, LLR
L321	Broadhurst, OpenPFGW, NewPGen, LLR
L330	Tjung, Srsieve, Rieselprime, LLR
L381	Mate, Siemelink, Rodenkirch, MultiSieve, LLR
L426	Jaworski, Srsieve, Rieselprime, LLR
L436	Andersen2, Gcwsieve, MultiSieve, PrimeGrid, LLR
L446	Saridis, NewPGen, Proth.exe, LLR
L447	Kohlman, Gcwsieve, MultiSieve, PrimeGrid, LLR
L466	Zhou, NewPGen, LLR
L503	Benson, Srsieve, LLR
L521	Thompson1, Gcwsieve, MultiSieve, PrimeGrid, LLR
L527	Tornberg, TwinGen, LLR

code	description
L545	AndersonM, NewPGen, Rieselprime, LLR
L554	Barnes, Srsieve, LLR
L587	Dettweiler, Srsieve, CRUS, LLR
L606	Bennett, Srsieve, NewPGen, PrimeGrid, 321search, LLR
L613	Keogh, Srsieve, ProthSieve, RieselSieve, LLR
L621	Sutton1, Srsieve, Rieselprime, LLR
L622	Cardall, Srsieve, ProthSieve, RieselSieve, LLR
L632	Stokkedalen, Rieselprime, LLR
L635	Vogel, Srsieve, PrimeGrid, LLR
L645	Luhn, LLR
L651	Courty, Srsieve, PrimeGrid, LLR
L652	$Wu_T$ , <i>NewPGen</i> , <i>LLR</i>
L656	Yama, Srsieve, PrimeGrid, LLR
L668	Ueda, Srsieve, PrimeGrid, LLR
L669	Harvey, Srsieve, PrimeGrid, LLR
L679	Foody, Srsieve, PrimeGrid, LLR
L689	Brown1, Srsieve, PrimeGrid, LLR
L690	Cholt, Srsieve, PrimeGrid, LLR
L732	Embling, Srsieve, PrimeGrid, LLR
L753	Wolfram, Srsieve, PrimeGrid, LLR
L780	Brady, Srsieve, PrimeGrid, LLR
L801	Gesker, Gcwsieve, MultiSieve, PrimeGrid, LLR
L872	Gronow, Srsieve, PrimeGrid, LLR
L917	Bergman1, Gcwsieve, MultiSieve, PrimeGrid, LLR
L923	Kaiser1, Klahn, NewPGen, PrimeGrid, TPS, SunGard, LLR
L934	Desmond, TwinGen, PrimeGrid, LLR
L967	Courty, TwinGen, PrimeGrid, LLR
L983	$Wu_T$ , <i>LLR</i>
L1008	Fries, TwinGen, PrimeGrid, LLR
L1065	Gockel, Srsieve, PrimeGrid, LLR
L1125	Laluk, PSieve, Srsieve, PrimeGrid, LLR
L1129	Slomma, PSieve, Srsieve, PrimeGrid, LLR
L1153	Kaiser1, Srsieve, PrimeGrid, 12121search, LLR
L1183	Gaster, TwinGen, PrimeGrid, LLR
L1204	Brown1, PSieve, Srsieve, PrimeGrid, LLR
L1210	Rhodes, PSieve, Srsieve, PrimeGrid, LLR
L1223	Courty, PSieve, Srsieve, PrimeGrid, LLR
L1224	Domanov1, PSieve, Srsieve, PrimeGrid, LLR
L1286	Scullin, TwinGen, PrimeGrid, LLR
L1349	Wallace, Srsieve, NewPGen, PrimeGrid, LLR
L1353	Mumper, Srsieve, PrimeGrid, LLR
L1415	Englund, PSieve, Srsieve, PrimeGrid, LLR
L1446	Harvey, PSieve, Srsieve, PrimeGrid, LLR
L1460	Salah, Srsieve, PrimeGrid, PrimeSierpinski, LLR
L1471	Gunn, Srsieve, CRUS, LLR
L1498	Goral, PSieve, Srsieve, PrimeGrid, LLR
L1513	Miller1, PSieve, Srsieve, PrimeGrid, LLR
L1633	Gott, TwinGen, PrimeGrid, LLR
L1661	Mitchell1, TwinGen, PrimeGrid, LLR
L1706	Brand, TwinGen, PrimeGrid, LLR

code	description
L1728	Gasewicz, PSieve, Srsieve, PrimeGrid, LLR
L1741	Granowski, PSieve, Srsieve, PrimeGrid, LLR
L1751	Eckhard, Srsieve, PrimeGrid, LLR
L1828	Benson, PSieve, Srsieve, Rieselprime, LLR
L1830	Bonath, PSieve, Srsieve, NPLB, LLR
L1862	Curtis, PSieve, Srsieve, Rieselprime, LLR
L1921	Winslow, TwinGen, PrimeGrid, LLR
L1945	Clark2, TwinGen, PrimeGrid, LLR
L1949	Pritchard, Srsieve, PrimeGrid, RieselSieve, LLR
L1958	DUrso, Srsieve, OpenPFGW, NewPGen, LLR
L2046	Melvold, Srsieve, PrimeGrid, LLR
L2054	Kaiser1, Srsieve, CRUS, LLR
L2055	Soule, PSieve, Srsieve, Rieselprime, LLR
L2074	Minovic, PSieve, Srsieve, Rieselprime, LLR
L2078	Dahlman, TwinGen, PrimeGrid, LLR
L2085	Dodson1, PSieve, Srsieve, PrimeGrid, LLR
L2121	VanRangelrooij, PSieve, Srsieve, PrimeGrid, LLR
L2233	Herder, Srsieve, PrimeGrid, LLR
L2269	Schori, Srsieve, PrimeGrid, LLR
L2371	Luszczek, Srsieve, PrimeGrid, LLR
L2373	Tarasov1, Srsieve, PrimeGrid, LLR
L2408	Reinman, Srsieve, PrimeGrid, LLR
L2413	Blyth, PSieve, Srsieve, PrimeGrid, LLR
L2419	Gathright, PSieve, Srsieve, PrimeGrid, LLR
L2425	Dallosto, LLR
L2484	Ritschel, PSieve, Srsieve, Rieselprime, LLR
L2487	Liao, PSieve, Srsieve, PrimeGrid, LLR
L2503	Zhan1, PSieve, Srsieve, PrimeGrid, LLR
L2516	Koschewski, PSieve, Srsieve, PrimeGrid, LLR
L2517	McPherson, PSieve, Srsieve, PrimeGrid, LLR
L2518	Karevik, PSieve, Srsieve, PrimeGrid, LLR
L2561	Vinklat, PSieve, Srsieve, PrimeGrid, LLR
L2562	Jones3, PSieve, Srsieve, PrimeGrid, LLR
L2659	Reber, PSieve, Srsieve, PrimeGrid, LLR
L2664	Koluvare, PSieve, Srsieve, PrimeGrid, LLR
L2673	Burningham, PSieve, Srsieve, PrimeGrid, LLR
L2675	Ling, PSieve, Srsieve, PrimeGrid, LLR
L2691	Petterson, PSieve, Srsieve, PrimeGrid, LLR
L2703	Armstrong, PSieve, Srsieve, PrimeGrid, LLR
L2777	Ritschel, Gcwsieve, TOPS, LLR
L2803	Barbyshev, PSieve, Srsieve, PrimeGrid, LLR
L2841	Minovic, Gcwsieve, MultiSieve, TOPS, LLR
L2911	Burt, Gcwsieve, MultiSieve, GenWoodall, LLR
L2959	Derrera, PSieve, Srsieve, PrimeGrid, LLR
M	Morain
M1	Mayer, Mihailescu
MM	Morii
O	Oakes
p3	Dohmen, OpenPFGW
p5	Jobling, OpenPFGW

code	description
p8	Caldwell, OpenPFGW
p12	Water, OpenPFGW
p16	Heuer, OpenPFGW
p21	Anderson, Robinson, OpenPFGW
p35	Augustin, NewPGen, OpenPFGW
p41	Luhn, OpenPFGW
p44	Broadhurst, OpenPFGW
p54	Water, Broadhurst, OpenPFGW
p58	Glover, Oakes, OpenPFGW
p65	DavisK, Kuosa, OpenPFGW
p72	Caldwell, ForEis, PhiSieve, PIES, OpenPFGW
p80	Chaffey, OpenPFGW
p85	Marchal, Carmody, Kuosa, OpenPFGW
p94	Angel, Jobling, Augustin, NewPGen, OpenPFGW
p100	Underbakke, Carmody, PRP, NewPGen, OpenPFGW
p102	Underwood, Frind, OpenPFGW
p114	Samidoost, FermFact, PRP, OpenPFGW
p116	Eaton, NewPGen, OpenPFGW
p133	Sun, NewPGen, OpenPFGW
p148	Yama, Noda, Nohara, PRP, NewPGen, MatGFN, OpenPFGW
p155	DavisK, NewPGen, OpenPFGW
p158	Paridon, NewPGen, OpenPFGW
p164	Morain, Broadhurst, OpenPFGW
p166	Yamada, Noda, Nohara, PRP, NewPGen, MatGFN, OpenPFGW
p169	Eaton, PRP, NewPGen, OpenPFGW
p170	$Wu_T$ , <i>Primo</i> , OpenPFGW
p179	DavisK, APTreeSieve, OpenPFGW
p185	Carmody, Ksieve, Tetric, OpenPFGW
p189	Bohanon, LLR, OpenPFGW
p193	Irvine, Broadhurst, Primo, OpenPFGW
p199	Broadhurst, NewPGen, OpenPFGW
p219	Samidoost, FermFact, LLR, OpenPFGW
p227	Harvey, Srsieve, PRP, OpenPFGW
p235	Bedwell, OpenPFGW
p236	Cooper, PRP, NewPGen, OpenPFGW
p237	Platzer1, Gcwsieve, 3Ps, GenWoodall, OpenPFGW
p240	Harvey, FermFact, LLR, OpenPFGW
p243	Harvey, Gcwsieve, MultiSieve, LLR, OpenPFGW
p252	Oakes, NewPGen, OpenPFGW
p254	Vogel, Srsieve, CRUS, OpenPFGW
p258	Batalov, Srsieve, CRUS, OpenPFGW
p259	Underbakke, GenefX64, AthGFNSieve, OpenPFGW
p260	Harvey, Gcwsieve, MultiSieve, GenWoodall, OpenPFGW
p262	Vogel, Gcwsieve, MultiSieve, PrimeGrid, OpenPFGW
p277	Kaiser1, Gcwsieve, MultiSieve, PrimeGrid, OpenPFGW
p278	Hays, Gcwsieve, MultiSieve, PrimeGrid, OpenPFGW
p281	Domanov1, Srsieve, Prime95, NPLB, OpenPFGW
p288	Boncompagni, OpenPFGW
p290	Domanov1, Fpsieve, PrimeGrid, OpenPFGW
p292	Dausch, Srsieve, SierpinskiRiesel, OpenPFGW

code	description
p294	Domanov1, Srsieve, Prime95, Rieselprime, OpenPFGW
p295	Angel, NewPGen, OpenPFGW
p296	Kaiser1, Srsieve, LLR, OpenPFGW
p297	Broadhurst, Srsieve, LLR, NewPGen, OpenPFGW
p301	Winskill1, Fpsieve, PrimeGrid, OpenPFGW
p302	Gasewicz, Fpsieve, PrimeGrid, OpenPFGW
p308	DavisK, Underwood, NewPGen, PrimeForm <sub>egroup</sub> , <i>OpenPFGW</i>
p309	Yama, GenefX64, AthGFNSieve, PrimeGrid, OpenPFGW
p310	Hubbard, Gcwsieve, MultiSieve, PrimeGrid, OpenPFGW
p311	DUrso, NewPGen, OpenPFGW
p312	Doggart, Fpsieve, PrimeGrid, OpenPFGW
p314	Hubbard, GenefX64, AthGFNSieve, PrimeGrid, OpenPFGW
p325	Broadhurst, Gcwsieve, MultiSieve, OpenPFGW
p327	Hubbard, Gcwsieve, MultiSieve, GenWoodall, OpenPFGW
p332	Johnson6, GeneferCUDA, AthGFNSieve, PrimeGrid, OpenPFGW
p334	Goetz, GeneferCUDA, AthGFNSieve, PrimeGrid, OpenPFGW
p338	Tomecko, GeneferCUDA, AthGFNSieve, PrimeGrid, OpenPFGW
PM	Mihailescu
S	Slowinski
SB10	Agafonov, SoBSieve, ProthSieve, Ksieve, Proth.exe, SB, PRP
SB11	Sunde, SoBSieve, ProthSieve, Ksieve, Proth.exe, SB, PRP
SB6	Sundquist, SoBSieve, ProthSieve, Ksieve, Proth.exe, SB, PRP
SB7	Team <sub>primeRib</sub> , <i>SoBSieve, ProthSieve, Ksieve, SB, PRP</i>
SB8	Gordon, SoBSieve, ProthSieve, Ksieve, Proth.exe, SB, PRP
SB9	Hassler, SoBSieve, ProthSieve, Ksieve, Proth.exe, SB, PRP
SG	Slowinski, Gage
WC	Colquitt, Welsh
WD	Dubner, Williams, Cruncher
WM	Morain, Williams
x13	Renze
x14	Steward, Primo, OpenPFGW
x16	Doumen, Beelen
x23	Water, Renze, Broadhurst, Primo, OpenPFGW
x24	Jarai <sub>Z</sub> , <i>Farkas, Csajbok, Kasza, Jarai</i>
x25	Water, Broadhurst, Primo, OpenPFGW
x28	Iskra
x33	Carmody, Water, Renze, Broadhurst, Primo, OpenPFGW
x34	Caldwell, Broadhurst, OpenPFGW
x36	Irvine, Carmody, Water, Renze, Broadhurst, Primo, OpenPFGW
x37	Zhou, LLR
x38	Broadhurst, Primo, OpenPFGW
x39	Dubner, Keller, Broadhurst, Primo, OpenPFGW
x40	Bedwell, Broadhurst, OpenPFGW
Y	Young